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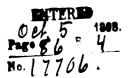


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ANNUAL REPORT

OF THE

Dairy and Food Commissioner



OF

WISCONSIN.

1894.



MADISON, WISCONSIN: DEMOCRAT PRINTING COMPANY, STATE PRINTER. 1894.

WISCONSIN DAIRY AND FOOD COMMISSION.

THOMAS LUCHSINGER,	,	-	-	-	-	-	COMMISSIONER.
WALTER A. WEST,		-	-	-	-	-	DAIRY EXPERT.
GEORGE S. COX	-	_		_		_	STATE CHEMIST.

LETTER OF TRANSMITTAL.

MADISON, WIS., Oct. 1st, 1894.

To his Excellency GEO. W. PECK,

Governor of the State of Wisconsin:

I have the honor to submit the report of this commission for the two years ending September 30th, 1894.

THOS. LUCHSINGER, Commissioner.

In Memoriam.

D. J. Harkness,

Forn in Ashland Co., Ohio, 1827.

Died June 11, 1894.

State Dairy and Food Commissioner from June 1, 1891, to June 11, 1894.

LAWS OF WISCONSIN RELATING TO THE OFFICE OF DAIRY AND FOOD COMMISSIONER.

Chapter 109, Laws of 1893.

An Act to amend section 9, chapter 452, of laws of 1889, relating to the office of dairy and food commissioner.

The people of the state of Wisconsin, represented in senate and assembly do enact as follows:

SECTION 1. Section 9 of chapter 452, of the laws of 1889, is hereby amended by striking out the words "an annual" where they occur in the third line of the said section, and inserting in lieu thereof, the words "a biennial;" also by striking out the word "annually" where it occurs in the tenth line of said section, and inserting in lieu thereof the word "biennially;" so that the said section shall read as follows: Section 9. Said commissioner shall be furnished a suitable office in the capitol at Madison, and shall make a biennial report to the governor, which shall contain an itemized account of all expenses incurred and fines collected, with such statistics and other information as he may regard of value, and with the consent of the governor, not exceeding 20,000 copies thereof, limited to 300 pages, may be published biennially as other official reports are published, and of which 5,000 copies shall be bound in cloth.

SECTION 2. This act shall take effect and be in force from and after its passage and publication.

Approved April 6, 1893.

Chapter 228, Laws of 1893.

An Act to regulate the branding of cheese.

The people of the state of Wisconsin, represented in senate and assembly, do enact as follows:

SECTION 1. No person shall offer for sale, sell, ship or consign cheese labeled with a false brand or label, as to the quality of the article.

SECTION 2. The state dairy and food commissioner is hereby authorized and directed to issue to the cheese manufactories of the state, upon

proper application therefor and under such regulations as to the custody and use thereof as he may prescribe, a uniform stencil or brand, bearing a suitable device or motto and the words "Wisconsin Full Cream Cheese."

SECTION 3. Every brand issued shall be used upon the side of the cheese on the bandage thereof, also upon the package containing the same, and shall bear a different number for each separate manufactory and the commissioner shall keep a book in which shall be registered the name, location and number of each manufactory using the said brand, and the name or names of the persons at each manufactory, authorized to use the same.

SECTION 4. It shall be unlawful to use or permit such brand to be used upon any other than full cream cheese or package containing the same.

SECTION 5. Every person who shall at any cheese factory in the state manufacture skimmed cheese, shall distinctly and durably stamp upon each and every such cheese, and upon the box, the words "Wisconsin Skimmed Cheese." All cheese not manufactured as in sections 1, 2, 3 and 4 of this act, shall be deemed to be skimmed cheese under the provisions of this act. The brand herein provided by this section of this act, for designating the grade and quality of cheese provided by this section, shall be such as to produce an impression not less than three inches in width and five inches in length, and shall be in full faced capital letters of as large size as the space hereby provided for will permit, and the whole to be included within a plain heavy border. Ordinary stamping ink, either red, green or violet in color, and of such composition as not to be easily removed or wholly obliterated by moisture, shall be used in stamping as provided for by this section.

SECTION 6. Whoever violates the provisions of this act shall be deemed guilty of a misdemeanor, and for each and every package so falsely branded, or omitted to be branded as herein provided, shall be punished by a fine of not less than twenty-five nor more than fifty dollars, one half of which shall be paid to the person or persons furnishing the evidence upon which such conviction is made.

SECTION 7. All acts or parts of acts inconsistent with the provisions of this act are hereby repealed.

SECTION 8. This act shall take effect and be in force from and after its publication.

Approved April 17, 1893.

OF THE OFFICE AND DUTIES OF THE FOOD AND DAIRY COMMISSIONER.

Chapter 452, Laws of 1889.

SECTION 1. The office of Dairy and Food Commissioner for the state of Wisconsin is hereby created. Such commissioner shall be appointed by the governor, by and with the advice and consent of the senate, and his term of office shall be for two years from the date of his appointment, and until his successor is appointed and qualified; provided, that the term of office of the commissioner first appointed under this act shall expire on the first Monday in February, 1891, and vacancies occurring in the office for any cause shall be filled by appointment for the balance of the unexpired term. The salary of the commissioner shall be twenty-five hundred dollars per annum and his necessary and actual expenses incurred in the discharge of his official duties.

SECTION 2. Such commissioner may with the consent and advice of the governor, appoint two assistants, each of acknowledged standing, ability and integrity, one of whom shall be an expert in the matter of dairy products and the other of whom shall be a practical analytical chemist. The salaries of such assistants shall not exceed eighteen hundred dollars each per annum and their necessary and actual expenses incurred in the discharge of their official duties.

SECTION 3. It shall be the duty of the commissioner to enforce all laws that now exist, or may hereafter be enacted in this state regarding the production, manufacture or sale of dairy products, or the adulteration of any article of food or drink or of any drug, and personally or by his assistants, to inspect any article of milk, butter, cheese, lard, syrup, coffee or tea, or other article of food or drug made or offered for sale within this state, which he may suspect or have reason to believe to be impure, unhealthful, adulterated or counterfeit, and to prosecute, or cause to be prosecuted any person or persons, firm or firms, corporation or corporations, engaged in the manufacture or sale of any adulterated or counterfeit article or articles of food or drink or drug, contrary to the laws of this state.

SECTION 4. Said commissioner or any assistant shall have power in the performance of his official duties to enter any creamery, factory, store, salesroom or other place or building where he has reason to believe that any food or drink or drug is made, prepared, sold or offered for sale, and to open any cask, tub, package or receptacle of any kind containing, or supposed to contain, any such article, and to examine or cause to be examined and analyzed the contents thereof, and the commissioner or any of his assistants may seize or take any article of food or drink or drug for analysis, but if the person from whom such sample is taken shall request

him to do so he shall at the same time, and in the presence of the person from whom such property is taken, securely seal up two samples of the article seized or taken, the one of which shall be for examination or ananalysis under the direction of the commissioner, and the other of which shall be delivered to the person from whom the articles were taken. And any person who shall obstruct the commissioner or any of his assistants by refusing to allow him entrance to any place where he desires to enter in the discharge of his official duty, or who refuses to deliver to him a sample of any article of food or drink or drug made, sold, offered or exposed for sale by such person, when the same is requested and when the value thereof is tendered, shall be deemed guilty of a misdemeanor punishable by a fine of not exceeding twenty-five dollars for the first offense and not exceeding five hundred dollars or less than fifty dollars for each subsequent offense.

SECTION 5. It shall be the duty of the district attorney in any county of the state, when called upon by the commissioner or any of his assistants to render any legal assistance in his power to execute the laws, and to prosecute cases arising under the provisions of this act, and all fines and assessments collected in any prosecution begun or caused to be begun by said commissioner or his assistants shall be paid into the state treasury.

SECTION 6. With the consent of the governor, the state board of health may submit to the commissioner, or to any of his assistants, samples of water or of food or drink or drugs, for examination or analysis, and receive special report showing the result of such examination or analysis. And the governor may also authorize the commissioner or his assistants when not otherwise employed in the duties of their offices, to render such assistance in the farmers' institutes, dairy and farmers' conventions, and the agricultural devartment of the university, as shall by the authorities be deemed advisable.

SECTION 7. The salaries of the commissioner and his assistants shall be paid out of the state treasury in the same manner as the salaries of other officers are paid, and their official expenses shall be paid at the end of each calendar month upon bills duly itemized and approved by the governor, and the amount necessary to pay such salaries and expenses is hereby appropriated annually.

SECTION 8. The commissioner may under the direction of the governor, fit up a laboratory, with sufficient apparatus for making the analysis contemplated in this act, and for such purpose the sum of fifteen hundred dollars, or so much thereof as may be necessary, is hereby appropriated, and for the purpose of providing materials and for other necessary expenses connected with the making of such analysis, there is also hereby appropriated so much as may be necessary, not exceeding six hundred dollars annually. The appropriations provided for in this section shall be drawn from the state treasury upon the certificates of the governor.

SECTION 9. See law of 1893.

SECTION 10. All acts and parts of acts conflicting with this act are hereby repealed.

SECTION 11. This act shall take effect and be in force from and after its passage and publication.

Approved April 16, 1889.

Note to section 4, supra.—If there is contradictory evidence concerning the sufficiency of the seal of a sample, and the credibility of the witnesses for the prosecution is submitted to the jury the defendant is not injured. If there is evidence that a few drops of carbolic acid were added to a sample of milk, and it is submitted to the jury as a question of fact whether this would change the character of the milk, make the analysis impossible or difficult, or in any way injuriously affect the sample for the purpose of analysis, the defendant has no cause of complaint. Commonwealth v. Spear, 143 Mass., 172.

It is observed of a similar statute that it is intended to secure a fair examination and analysis, by providing the defendant with the means of making an analysis of a portion of the same specimen which the state has analyzed. If the sample is not saved, or not saved in proper condition, he has no means of showing that his evidence, if any he has as to the quality of the milk, applies to that with reference to which the government witnesses testify. It cannot be said that a portion reserved is sealed, within the meaning of the statute, when wax is merely placed on the top of the cork, and not extended over the mouth of the bottle and thus making it air tight, if it is shown that the character of the milk will be affected by the air. Commonwealth v. Lockhardt, 144 Mass., 132.

Where the article analyzed has not been taken under the statute, the competency of evidence is to be determined by the common law, and the testimony of any person who had sufficient skill to analyze it, and who had analyzed some which was proven to have been sold by the defendant, is admissible. Commonwealth v. Holt, 146 Mass., 38.

PUREMILK, STANDARD OF.

Chapter 425, Laws of 1889.

SECTION 1. Any person who shall sell or offer for sale or furnish or deliver, or have in his possession, with intent to sell or offer for sale or furnish or deliver to any creamery, cheese factory, corporation, person or persons whatsoever, as pure, wholesome and unskimmed, any unmerchantable,

adulterated, impure or unwholesome milk, shall upon conviction thereof, be punished by a fine of not less than ten nor more than one hundred dollars for each and every offense.

SECTION 2. In all prosecutions or other proceedings under this or any other law of this state relating to the sale or furnishing milk, if it shall be proven that the milk sold or offered for sale, or furnished or delivered, or had in possession with intent to sell or offer for sale, or to furnish or deliver as aforesaid, as pure, wholesome or unskimmed, contain less than three per centum of pure butter fat, when subjected to chemical analysis or other satisfactory test, or that it had been diluted or any part of its cream abstracted, or that it or any part of it was drawn from cows known to the person complained of to have been within fifteen days before or four days after parturition, or to have any disease or ulcers or other running sores, then and in either case the said milk shall be held, deemed and adjudged to have been unmerchantable and adulterated, impure or unwholesome, as the case may be.

SECTION 3. All acts and parts of acts conflicting with or contrary to the provisions of this act are hereby repealed.

SECTION 4. This act shall take effect and be in force from and after its passage and publication.

Approved April 16, 1889.

Note. — Validity. — A New York law (chapter 183, of 1885; chapter 202, of 1884), provides that "no person or persons shall sell, supply or bring to be manufactured, to any butter or cheese manufactory, any milk diluted with water, or any unclean, impure, unhealthy, adulturated or unwholesome milk." Held a valid exercise of legislative power. People vs. West, 106 N. Y., 293.

A statute is not invalid because it fixes an arbitrary standard for pure or unadulterated milk, though it is drawn from healthy cows, and is sold in its natural state. In *People vs. Clipperly*, 37 Hun. (N. Y.), 324, it was held otherwise, one judge dissenting.

On appeal this case was reversed, without opinion, on the grounds given in the dissenting opinion: 101 N. Y. 634. The supreme court of New Hampshire say on this question: Practically it makes no difference whether milk is diluted after it is drawn from the cow, or whether it is made watery by giving her such food as will produce milk of an inferior quality, or whether the dilution, regarded by the legislature as excessive, arises from the nature of a particular animal, or a particular breed of cattle. The sale of such milk to unsuspecting consumers, for a price in excess of its value is a fraud, which the statute was designed to suppress. It is a valid exercise by the legislature of the police power for the prevention of fraud, and protection of the public health, and such as is constitutional. State vs. Campbell, 13 Atl. Rep., 585.

Construction—Indictment.—The New York law does not make fraudulent intent a necessary ingredient of the offense, and it would not be a

reasonable construction of it to apply it to a dairyman who owns and conducts a butter or cheese factory for the manufacture of those articles from milk furnished exclusively by himself, from his own cows. If the defendant is such a person, those facts are matter of a defense, and their existence need not be negatived on the face of the indictment. *People vs. West*, 106 N. Y., 298.

Under a Massachusetts law imposing a penalty for selling or offering to sell "adulterated milk, or milk to which any foreign substance has been added," it is immaterial whether the substance added is injurious or not. The indictment need not allege the quantity of such substance. Commonwealth vs. Schaffner, 16 Northeast. Rep., 280.

Under an act which prohibits the sale of milk which is not of a good, standard quality, the fact that the milk was delivered under a contract to furnish the person who bought it with the milk of one dairy, is not a defense if that furnished was not of such quality. The contract would be held to contemplate milk which should be bought and sold. Commonwealth vs. Holt, 15 Northeast. Rep., 280.

Where one is charged with having in his possession, with intent to sell milk which is not of a good, standard quality, the fact that he was upon a wagon which had his name painted upon it, and that therein were cans of milk, and that a sample was given from one of them to one employed by the milk inspector for analysis, is competent evidence to go to the jury upon the question of his intent. Commonwealth vs. Rowell, 15 Northeast. Rep., 154.

Effect of the act of 1889 upon previous laws.—It seems reasonably clear that section 1, of chapter 425, laws of 1889, *supra*, supersedes section 1, of chapter 157, laws of 1887, as to the offense of selling diluted, impure and unclean milk. Both the acts referred to cover the provisions of section 4607 Revised Statutes, and hence that section is not in force.

PROOF OF ADULTERATION, HOW MADE.

Section 2, of Chapter 157 of Laws of 1887, as amended by Chapter 344, Laws of 1889.

SECTION 1. Proof of adulterations and skimming may be made with such standard tests and lactometers as are used to determine the quality of milk, or by chemical analysis.

SECTION 2. This act shall take effect and be in force from and after its passage and publication.

Approved April 10, 1889.

NOTE.—This act supersedes chapter 361, laws of 1885, so far as the last mentioned act is valid. The act of 1885 prohibited the manufacture out of



any oleaginous substances, or any compound of the same, other than that produced from unadulterated milk, or cream of the same, any article designed to take the place of butter or cheese, produced from pure, unadulterated milk, or cream of the same, and the offering of the same for sale or selling it as an article of food, without providing, as does the act of 1889, that the sale or offering for sale such an article must be made as and for butter or cheese, the product of the dairy. See, to the effect that such a clause is unconstitutional, *People vs. Arensberg*, 103 N. Y., 388.

NOTE.—Origin.—This section, except as to the penalty, is a copy of a part of section 8, chapter 188, laws of New York, 1885.

Validity.—Section 7, chapter 183, laws of New York, 1885, "prohibits: 1st. The manufacture out of any animal fat, or animal or vegetable oils not produced from unadulterated milk or cream from the same, of any product in imitation or semblance or designed to take the place of natural butter produced from milk, etc. 2d. Mixing, compounding with, or adding to milk, cream or butter, any acids or other deleterious substances, or animal fats, etc., with design or intent to produce any article in imitation or semblance of natural butter. 3d. Selling, or keeping or offering for sale any article manufactured in violation of the provisions of this section." Held, that if butter made from animal fat or oils is as wholesome and nutritious and suitable for food as dairy butter, the producers of butter made from animal fat or oils have no constitutional right to resort to devices for the purpose of making their products resemble in appearance the more expensive article known as dairy butter. It is competent for the legislature to enact laws to prevent the simulated article being put upon the market in such a form and manner as to be calculated to deceive. The statute is intended to reach a designed and purposed imitation of dairy butter in manufacturing the product which is not such butter, and not a resemblance in qualities inherent in the articles and common to both kinds of butter. People vs. Arensberg, 405 N. Y., 123.

A state may lawfully prohibit the manufacture out of oleaginous substances, or out of any of its compounds, other than that produced from unadulterated milk or cream from such milk, of an article designed to take the place of butter or cheese produced from unadulterated milk. It may also prohibit the manufacture, or sale, or the offering for sale, of any imitation or adulterated butter or cheese, or the having of it in possession with intent to sell the same as an article of food. *Powell vs. Pennsylvania*, 127 U. S., 678.

Though it may be severe to punish those who unintentionally sell the article prohibited, the legislature has power to so provide in order that the much larger number may be protected. State vs. Newton, 14 Atl. Rep., 604.

The supreme court of New Jersey has held that a statute enacted for a purpose similar to that which caused the passage of this act is not invalid because it prohibits the sale of oleomargarine brought to that state from other states and not intended for further transportation. The act produces only an indirect and incidental effect upon interstate commerce. State vs. Newton, 14 Atl. Rep., 604.

ADULTERATED HONEY MUST BE MARKED.

Part of Chapter 40, Laws of 1881.

SECTION 2. Every person, company or corporation, who shall sell or offer for sale, honey, or any imitation of honey, which is adulterated with glucose, or any other substance, shall mark the package or parcel with the words "adulterated honey," as required by section 1 of this act.

NOTE.—Section 1, of chapter 40, laws of 1881, related to the manufacture of imitation butter, and provided that each firkin, tub, package or parcel thereof, should be marked on top of same in letters not less than one-half inch in length, and breadth in proportion, and in such manner that it may be plainly seen. As applied to butter the said section was repealed by chapter 361, laws of 1885. Section 3, of the act of 1881, related to imitation cheese. It was also repealed by the act of 1885.

SECTION 4. Any person found guilty of any violation of this act, shall, for each offense be punished by imprisonment in the county jail, not less than ten days nor more than six months, or by a fine of not less than ten dollars nor more than one hundred dollars, or both, in the discretion of the court.

SECTION 5. One half of all the fines imposed by the enforcement of this act shall be paid to the person who informs against and prosecutes such offender to conviction.

SECTION 6. All acts or parts of acts conflicting with the provisions of this act are hereby repealed.

SECTION 7. This act shall take effect and be in force from and after its passage and publication.

Approved March 8, 1881.

PENALTY FOR SALE OF UNWHOLESOME PROVISIONS.

Section 4599, Revised Statutes.

SECTION 4599. Any person who shall knowingly sell any kind of diseased, corrupt or unwholesome provisions, whether for meat or drink,

without making the same fully known to the buyer, shall be punished by imprisonment in the county jail not more than six month s, or by fine not exceeding one hundred dollars.

ADULTERATION OF FOOD, LIQUORS AND CANDIES.

Section 4600, Revised Statutes.

SECTION 4600. Any person who shall fraudulently adulterate, for the purpose of sale, any substance intended for food, or any wine, spirits, malt, liquor, or other spirituous liquors, or any other fluid, intended for drinking, or any candy or sweetmeat, with any substance, coloring matter, or anything poisonous, deleterious or injurious to health, or who shall knowingly manufacture, sell, or offer for sale, any such adulterated food, liquor, candy or sweetmeat, shall be punished by imprisonment in the county jail, not more than six months, or by fine not exceeding one hundred dollars, and any article so adulterated shall be forfeited and destroyed.

NOTE.—See chapter 248, law of 1879, infra, which appears to supersede this section in part.

ADULTERATION OF FOOD AND DRUGS—DECEPTIVE LABELING OF.

Chapter 248, Laws of 1879.

SECTION 1. No person shall mix, color, stain, powder, order or permit any other person to mix, color, stain or powder any article of food with any ingredient or material so as to render the article injurious to health, with intent that the same may be sold in that condition. And any person that shall sell any such article so mixed, colored, stained or powdered, shall be subjected to a penalty in each case not exceeding a fine of fifty dollars for the first offense, and for a second offense shall be punished by imprisonment in the state prison for a period not exceeding one year, with hard labor.

*Section 2. No person shall, except for the purpose of compounding as hereinafter described, mix, color, stain or powder, or permit any other person to mix, color, stain or powder any drug with any ingredient or material so as to effect injuriously the quality or potency of such drug, with intent that the same may be sold in that condition. And any person who

shall sell any such drug so mixed, colored, stained or powdered shall be liable to the same penalty or punishment in each case respectively, as in the preceding section, for a first and subsequent offense; provided, that no person shall be liable to be convicted under the foregoing sections of this act, in respect to the sale of any article of food or of any drug, if he shows to the satisfaction of the justice or court before whom he is charged that he did not know of the article or drug sold by him being so mixed, colored, stained or powdered, as in that section mentioned, and that he could not, with reasonable diligence, have obtained that knowledge; or that such mixing, coloring, staining, or powdering was required for the production, extraction, preparation, preservation, consumption or transportation as an rticle of commerce in a state fit for carriage; or where the drug or food is supplied in the state required by the specification of the patent in force; or that the food or drug was unavoidably mixed with some extraneous matter in process of collection or preparation.

SECTION 3. Every person who shall compound or put up for sale any food, drug or liquer, in casks, boxes, bottles or packages, with any label, mark or device whatever, so as and with intent to mislead or deceive as to the true name, nature, kind and quality thereof, shall be liable to a penalty of not to exceed five hundred dollars for the first offense, and for every offense after the first offense shall be punished by imprisonment in the state prison for not less than one year nor more than ten years.

SECTION 4. The term "food" as herein used shall include every article used for food or drink by man other than drugs. The term "drug" shall include medicine for internal or external use.

SECTION 5. This act shall take effect and be in force from and after the first day of July, after its passage and publication.

Approved March 5, 1879.

ADULTERATION OF DRUGS AND MEDICINES.

Section 4601, Revised Statutes.

SECTION 4601. Any person who shall fraudulently adulterate, for the purpose of sale, any drug or medicine in such a manner as to render the same injurious to health, shall be punished by imprisonment in the county jail, not more than one year, or by fine not exceeding three hundred dollars.

Note.—See chapter 248, laws of 1879, supra.

COLORING GRAIN.

Section 4606, Revised Statutes.

SECTION 4606. Any person who shall fumigate any barley, wheat, or other grain, by the use of sulphur or other substance, or shall in any way, or by the use of any chemical, material or process, affect the color or healthfulness of such grain, or who shall sell or offer for sale any such grain, knowing that the same has been so fumigated, or the color or healthfulness thereof so affected, shall be punished by imprisonment in the county jail, not more than one month, or by fine not exceeding fifty dollars.

THE PREVENTION OF FRAUD IN DAIRY MANUFACTORIES.

Section 1494a, Revised Statutes.

Any butter or cheese manufacturer who shall knowingly use, or allow any of his employes or any other person to use for his or their own individual benefit, any milk or cream from the milk, brought to said butter or cheese manufacturer, without the consent of all the owners thereof, or any butter or cheese manufacturer who shall refuse or neglect to keep, or cause to be kept, a correct account (open to the inspection of any one furnishing milk to such manufacturer), of the amount of milk daily received, or of the number of pounds of butter, and the number and aggregate weight of cheese made each day, or the number cut or otherwise disposed of, and the weight of each, shall, for each and every offense, forfeit and pay a sum of not less than twenty five dollars, nor more than one hundred dollars, to be recovered in an action in any court of competent jurisdiction, one half for the benefit of the person or persons, firm or association, or their assigns, upon whom such fraud or neglect shall be committed, first having made complaint therefor, the remainder to the school fund.

TO THE WISCONSIN DEALERS AND MANUFACTURERS OF VINEGAR.

Chapter 394, Laws 1891.

Text and suggestions relating to the law passed by the legislature of 1891.

SECTION 1. Every person who manufactures for sale, or offers or exposes for sale, as cider vinegar, any vinegar not the legitimate product of pure

apple juice, known as apple cider, or vinegar not made exclusively of said apple cider, or vinegar into which foreign substances, drugs or acids have been introduced, as may appear by proper tests, shall be deemed guilty of a misdemeanor.

SECTION 2. Every person who manufactures for sale, or offers for sale, any vinegar, found, upon proper tests, to contain any preparation of lead, copper, sulphuric acid, or other ingredient injurious to health, shall be deemed guilty of a misdemeanor.

SECTION 3. No person, by himself, his servant or agent, or as the servant or agent of any other person, shall sell, exchange, deliver, or have in his custody or possession, with intent to sell or exchange, or expose or offer for sale or exchange, any adulterated vinegar, nor shall he label, brand or sell as cider vinegar, or as apple vinegar, any vinegar not the legitimate product of pure apple juice, or not made exclusively from apple cider.

SECTION 4. All vinegar shall have an acidity equivalent to the presence of not less than four per cent. by weight, of absolute acetic acid, and, in the case of cider vinegar, shall contain in addition not less than two per cent. by weight, of cider vinegar solids upon full evaporation over boiling water at 212°; and if any vinegar contains any artificial coloring matter injurious to health, or less than the above amount of acidity, or in the case of cider vinegar, if it contains less than the above amount of acidity or of cider vinegar solids, it shall be deemed adulterated within the meaning of this act. All manufacturers of vinegar in the state of Wisconsin, and all persons who reduce or re-barrel vinegar in this state, and all persons who handle vinegar in lots of one barrel or more, are hereby required to stencil or mark in black figures at least one inch in length on the head of each barrel of vinegar bought or sold by them, the standard strength of the vinegar contained in the package or barrel, which shall be denoted by the percentum of acetic acid. And any neglect so to mark or stencil each package or barrel, or any false markings of packages or barrels, shall be deemed a misdemeanor.

SECTION 5. Whoever violates any of the provisions of this act shall be deemed guilty of a misdemeanor and shall be punished by a fine not less than ten nor more than one hundred dollars and costs.

SECTION 6. This act shall take effect and be in force from and after its passage and publication.

SECTION 1 provides that any person who makes eider vinegar shall sell it as such.

Section 2 provides that no injurious ingredients shall be used in the manufacture of vinegar.

Section 3 provides that no person or his agent, shall sell adulterated or spirit vinegar as cider vinegar.



Section 4 provides that all vinegar shall test not less than 4 per cent. of acetic acid, and that cider vinegar shall contain not less than two per cent. of solids, and that manufacturers and reducers, and persons who handle vinegar, shall brand upon the head of barrel, in letters not less than one inch, the per centum of acetic acid, as follows:

ACETIC ACID 4 PER CENTUM.

Chapter 248, Laws of 1879, provides that no label, mark or device shall be upon any package or cask, which shall mislead or deceive as to the true contents.

THIS ACT REPEALS CHAPTER 185, LAWS OF 1887.

Chapter 165, Laws of 1891.

SECTION 1. No person shall sell, exchange, expore or offer for sale or exchange, or ship or consign, or have in his possession with intent to sell, ship or consign any substance purporting, appearing, or represented to be butter or cheese, or having the semblance of either butter or cheese, which substance is not made wholly and directly from pure milk or cream, salt and harmless coloring matter, unless it be done under its true name, and each vessel, package, roll or parcel of such substance has distinctly and durably printed, stamped, stenciled or marked thereon the true name of such substance in ordinary bold-faced capital letters, not less than five line pica in size, or sell or dispose of in any manner to another, any such substance in quantities less than the original package, without delivering with each amount sold or disposed of a label, on which is plainly and legibly printed in ordinary bold-faced capital letters not less than five line pica in size, the true name of such substance.

SECTION 2. No person or persons shall manufacture out of any oleaginous substance or substances, or any compound of the same other than that produced wholly, directly and at the time of manufacture from unadulterated milk or cream, salt and harmless coloring matter, any article in imitation of or designed to be sold, shipped or consigned as butter or cheese. Nothing in this section shall prevent the use of pure skimmed milk in the manufacture of cheese; but cheese made wholly or in part from skimmed milk should be plainly labeled "skimmed."

(This section repeals chapter 424, laws of 1889.)

SECTION 3. No person or persons shall manufacture, mix, compound with or add to natural or pure milk, cream, butter or cheese, any animal fats, animal, min eral or vegetable oils, or extraneous butter fat or oil, nor shall any person or persons manufacture any oleaginous or other substance not produced wholly and at the time from pure milk or cream, salt and harmless coloring matter, or have the same in his possession with intent to offer or expose the same for sale or exchange, or sell, consign, ship or in any manner dispose of the same as and for butter or cheese, nor shall any substance or compound so made be sold or disposed of to any one as and for butter or cheese.

SECTION 4. No person or persons shall sell, exchange, expose or offer for sale or exchange, dispose of, ship or consign or have in his possession any substance or article made in imitation or resemblance of any dairy product which is falsely branded, stenciled, labeled or marked.

SECTION 5. Every person in this state who shall deal in, keep for sale, expose or offer for sale or exchange, any substance other than butter or cheese, made wholly and directly from pure milk or cream, salt and harmless coloring matter, which appears to be, resembles or is made in imitation of butter or cheese, shall keep a card not less in size than ten by fourteen inches, posted in a conspicuous and visible place, where the same may be easily seen and read, in the store room, stand, booth, wagon or place where such substance is so kept or exposed for sale, on which card shall be printed on a white ground, in bold, black Roman letters, not less in size than twelve line pica, the words, "oleomargarine," "butterine," or "imitation cheese" (as the case may be) "sold here," and said card shall not contain any other words than the ones above prescribed; and no person shall sell any oleomargarine, butterine, imitation cheese or other imitation dairy product, at retail or in any quantity less than the original package, tub or firkin, unless he shall first inform the purchaser that the substance is not butter or cheese, but an imitation of the same.

SECTION 6. Every proprietor, keeper or manager, or person in charge of any hotel, boarding house, restaurant, eating house, lunch counter, or lunch room, who therein sells, uses or disposes of any substance which appears to be, resembles, or is made in imitation of butter or cheese, under whatsoever name, and which substance is not wholly and directly made from pure milk or cream, salt and harmless coloring matter, shall display and keep a card posted in a conspicuous place, where the same may be easily seen and read, in the dining room, eating room, lunch room restaurant and place where such substance is sold, used or disposed of, which card shall be white, and in size not less than ten by fourteen inches, upon which shall be printed in plain, black, Roman letters not less in size than twelve line pica, the words "oleomargarine used here," "butterine used here," or "imitation cheese used here," (as the case may be) and said card

shall not contain any other words than the ones above prescribed, and such proprietor, keeper, manager or person in charge shall not sell, furnish or dispose of substance as and for "butter or cheese" made from pure milk or cream, salt and harmless coloring matter, when butter or cheese is asked for.

SECTION 7. No butter or cheese not made wholly and directly from pure milk or cream, salt and harmless coloring matter shall be used in any of the charitable or penal institutions of the state.

SECTION 8. Any person or persons violating any of the provisions or sections of this act, shall, upon conviction thereof, be fined not less than twenty-five nor more than fifty dollars for the first offense, or for each subsequent offense not less than fifty nor more than one hundred dollars, or be imprisoned in the county jail not less than ten nor more than ninety days or both.

SECTION 9. One-half of all the fines collected under the provisions of this act shall be paid to the person or persons furnishing information upon which conviction is procured.

SECTION 10. All acts or part of acts contravening the provisions of this act are hereby repealed.

Section 11. This act shall take effect and be in force from and after its passage and publication.

REPORT OF THE COMMISSIONER.

Having just recently come into this office by appointment on the 27th day of June of the current year, it is my duty to make the report from the notes and memorandums left by my lamented predecessor, D. L. Harkness, who so ably administered the affairs of this commission for three years, and whose efficient services in this branch can never be fully appreciated and hardly expected to be reached, much less excelled by me. Naturally enough my report will not be as full nor as accurate as could be desired, but I will endeavor to give a general synopsis of the work done during the two years preceding the date of this report.

Mr. Walter A. West, our dairy expert, in his report, will fully touch upon the work done in the dairy interests of this state, and that his duties have been manifold and widespread, as comprising the whole of the territory of the state of Wisconsin, no one somewhat acquainted with the magnitude of our dairy interests will dispute. I, in person, have visited about twenty creameries and over fifty cheese factories located all over the state, and can but express my utmost satisfaction of the condition of them all.

While the statute does not make it our special duty to do so, we have found it a great deal of benefit to ourselves, the operators and their patrons, and much good has been done them thereby. Still, there is plenty of room and chance for improvement, and I can readily sympathize with the butter or cheesemaker fresh from our dairy school, which is an excellent institution of the kind, where he has had all the advantages which that almost perfect school affords in machinery and various utensils

and appendages used there, when he takes charge of a country factory or creamery but meagerly furnished with the most necessary or rather indispensable utensils, uncemented floors, and poorly ventilated curing rooms; and if in those cases he is unable to procure the same results which he attained at the dairy school, can we wonder that he is almost in despair and despondency and thinks that he has mistaken his calling? Nevertheless, he never loses sight of the first principle of the dairy business, that cleanliness is indispensable to good results, and I must say that almost in all cases that I have met that has been my experience, and I found everything as clean, neat and tidy as circumstances would permit.

I have also, in connection with the creameries and cheese factories where only American cheese is manufactured, visited a number of cheese factories where the so called fancy cheese is made, as Swiss, Limburger, Brick, Cream, and other kinds too numerous to mention. I have found a good many of them in good order and their product A No. 1, and in others I have wondered how, in spite of the untidiness, they were able to manufacture as good ware as they did. The later industry of manufacturing fancy cheese of the above kinds is steadily growing, and has arrived at large dimensions especially in Green, Dane, La Fayette, Iowa and a few other counties. It is stated by good authority that Green county alone exports the enormous number of 20,000,000 pounds of the above cheese, making at an average of ten cents per pound (which is rather high) the considerable sum of two million dollars. A little more fostering care, and a school of the cheese makers in the form of our state dairy school, would work wonders, and would be of incalculable value to the people of these counties.

Milk is still sold in great quantities in the old way, by the hundred weight, entailing thereby on this commission a great many unpleasant duties in watching and detecting dishonest and deceitful patrons skimming and watering their milk, to the great detriment of the parties buying the milk, or their copartners in business when the factory is running on the co-operative plan. This work would be greatly lessened, if not entirely abolished, if they were paid by the test of the butter fat, which is the only and just way for the proprietor and patron, as the patron will then receive that which really belongs to him—the value of his milk.

While in the former way, and which is still followed to a large extent, the patron who brings poor milk, which is barely up to and very often below the legal test, receives just as much for an inferior article as the one who makes it an object to bring the best and highest grade possible.

Quite a number of manufacturers see the propriety and utility of the last method, and it is to be hoped that all may avail themselves of it in the near future. Any watering or skimming of the milk will become utterly useless for the patron, as he will be absolutely debarred from receiving any benefit thereby, and nothing but the odium of his own fraud and deceit remains.

AS OTHERS SEE US.

Prof. Johannes Seidel, a very prominent member of the Imperial German Dairy Association, who was sent by his government as an expert to investigate the dairy exhibits and products at the Columbian Exposition, after a very thorough use of the opportunities afforded by the fair, made an extensive tour through the United States and the Canadas for the same purpose, and in regard to the dairy school of Wisconsin, says the following in his report to the Imperial Dairy Association:

"The dairy school at Madison, Wis., enjoys the reputation of being one of the best in America, and standing at the head of institutions of that kind. It is one of the most recent, and therefore supplied with the best improvements and modern appliances. Its great influence on the perfection of the dairy system of the state of Wisconsin is felt and appreciated everywhere." In regard to the dairy

products of Wisconsin he states nothing new, excepting as to Limburger and Swiss cheese made in Green county. He states: "In addition to Swiss cheese, Limburger is manufactured in great quantities in Green county. Its quality is excellent. No fat is taken from the milk and only full cream milk is used for its manufacture. The loaves are of exceeding uniformity in size and form and splendid texture and taste. They are equal to the very best of German fabrics and much better than the German average ware, so that German Limburger can never compete with the American goods on account of its skimmed quality and the unequal size and form. The Swiss cheese, made in the same county, is not so far behind the original imported goods as some might think. On the contrary, I had often occasion to find and try in large cheese warehouses, very excellent and well tended cheese which would only be excelled only by the very first-. class imported goods." So far, our worthy professor's judgshould be certainly accepted as sound, for the reason that it is rendered against the interests which he represents. But not only Green county, but also other counties enumerated above, and Winnebago county especially, as I have informed myself by personal inspection, manufacture an excellent article of Swiss and brick cheese, and it is stated upon competent authority that the best products of Green and Winnebago counties have been shipped back from New York city as the genuine imported "Emmenthaler" cheese.

As will be seen by the tables further on, a good many cases of adulterated or skimmed milk have been prosecuted by us, and in the majority of cases the parties have been found guilty and fined in various sums in accordance with the peculiar circumstances in each case. Where we have failed to convict, it was not by lack of evidence, but either by the negligence or ignorance of the court or prosecuting attorney, and in some cases by their unwillingness to prosecute at all. This has been somewhat remedied, as the head of this commission is in a measure ac-

quainted with the intricacies of the law, and his assistance in making the proper complaints and warrants has proved quite valuable. We have also on our tabulated reports some cases where parties were prosecuted for selling or using butterine or oleomargarine without proper notice, and the parties have either plead guilty or been found so and fined. This work is a very onerous one and has brought on this commission a good deal of the odium which is very unjustly attached to it.

It cannot very well be detected without personal investigation and visits to all localities where such products are likely to be used, and that would entail such an amount of business to this commission as to make it almost impossible to do anything else, and our available force is not adequate to the task. As for filled cheese we have had occasion to find but few cases.

Of course there are a number of firms who avowedly make that article, but as the law stands at present, we are powerless to deal with them as they deserve, as they all comply with the present statute in force and mark their product "Skimmed Cheese," thereby misleading unsuspecting people. A step in the right direction has been taken by the committee on legislation of the State Dairy Association, to pass a law through the legislature next winter, enjoining manufacturers of filled cheese to mark their products "Imitation Cheese," which, if it will not destroy the practice totally, will practically prohibit them from selling it, as none will buy an imitation when he can get the genuine article for almost the same price or a trifle Our chemist's report, which is hereto attached, will show what amount of work has been done in the dairy interests and the number of tests made by him from milk furnished to the laboratory by our expert, Mr. West, taken directly from each patron of a factory, or by samples sent by the operator or proprietor. We have done a great deal, but more should be done, and the territory of Wisconsin is so large that with taking samples, investigating and prosecuting, our time has been nearly, if not

all, taken up, giving us hardly any time for the other parts of our business which should be also attended to.

Another great field, and one of vast importance, is the supply of milk in cities to consumers. Much has been done in that class also, but more could be done; and while the supply of milk in smaller cities and villages is remarkably good as to quality, it is unquestionably bad in some of the larger cities, and enough adulteration has been found to warrant a through investigation of all milk supplied to cities of 3,000 inhabitants and over. This is a nesessary and urgent part of our business, as the city customer has no chance of knowing the spurious and often time dangerous quality of the milk dealt out to him and his family, and is therefore unprotected, while the operator and proprietor of a creamery or cheese factory has the means of protecting himself from fraud or deceit through tests by proper instruments, which are available to him, and as necessary as his vats and separators, if he wishes to be successful in his business. We have examined and tested an immense number of samples of vinegars, baking powders, and other articles of food which are subject to daily consumption, and have found a number of them either impure or not up to legal standard; in some cases we have taken active measures to prohibit the sale of such articles in our state, where the manufacturer thereof has his place of business outside of this state and is not amenable to our laws. other cases we have prosecuted both the manufacturer and persistent vendor of such spurious goods. In very many cases arising under this head, our statutes are inadequate and do not warrant a conviction, and our legislature should see to it that more stringent and pointed laws are enacted to cover this part of our work and give us a better foundation to act upon. To conclude, I would say that our dairy and food interests are of such magnitude that they well deserve the fostering care of wise and provident legislation, not only providing the commission with the most stringent laws as to adulteration and deterioration of food and dairy products, but to enact a law to force town

clerks to furnish to the dairy and food commission or to the secretary of state a full and correct statement of the number of dairy cows in each township, the number and nature of cheese factories or creameries in each town, the amount of butter or cheese made at each, and the value of the product in dollars and cents.

It would prove of great value to our total dairy interests, and distribute broadcast the fact that Wisconsin is indeed a great dairy state. Our tables that follow on that subject are merely approximate, and not at all correct or reliable, though based on statistics received by the secretary of state from the different county clerks, as I have good reason to know, and a better system of reports in that direction would be of great interest and benefit to all engaged in farming and dairying.

All of which is respectfully submitted.

THOMAS LUCHSINGER, Commissioner.

REPORT OF THE STATE CHEMIST.

CHEMICAL LABORATORY, WISCONSIN DAIRY AND FOOD COMMISSION.

HON. THOMAS LUCHSINGER,

State Dairy and Food Commissioner,

Madison, Wisconsin.

SIR:—I have the honor to submit herewith, my report as state chemist for the two years ending September 30, 1894.

Respectfully,

GEORGE. S. Cox, State Chemist.

Within the last few years, several of the states in the Union have enacted laws designed to suppress or control food adulteration, and in some of the larger cities, local ordinances supplement these statutes. The legislatures that have given this subject any considerable attention have also provided a corps of officials to enforce the laws, and, as a necessary adjunct of the work, have either established chemical departments or have retained chemists whose province it is to determine when the laws have been violated.

If the various laws upon the subject were codified, it would be seen that the larger part of them are so similar as to suggest that they had been obtained from the same source, and such, indeed, is the case, the English food and drug act being the basis upon which they were framed.

New York and Massachusetts were the first states to give the matter attention, and they were followed by Ohio,

Wisconsin, Oregon, Iowa, Minnesota and Michigan among the Western states. In several other states bills for food laws have been defeated, but the subject is attracting universal attention, and a movement is now on foot to bring the matter before the present congress in an endeavor to obtain national legislation, which is desirable from several standpoints.

Before considering the desirability of national laws, it is well to review the efficacy of state enactments, to consider how they are evaded and the result of attempts at enforcement.

Probably no term is more generally misunderstood than the word "adulterated" when applied to food stuffs. The general impression conveyed is that the adulterated article is pernicious, unwholesome, dangerous and unclean, while the reverse is more often the case. A wish to obtain an abnormal profit is the cause of all food adulteration, and the same cause would argue against the use of any ingredient that would rendered an article unwholesome or unpalatable. There is certainly no market for a food that is nauseating or deleterious; and the first thought of the manufacturer is to avoid offending the taste or injuring the health of the consumer.

Over ninety per cent. of adulterated food is non-injurious to health, and the cases that occasionally arise where danger, however remote, is incurred are generally the results of gross ignorance or pure accident. The popular impression that death lurks within the coffee can or vinegar cask is attributable to sensational articles that have gone the rounds of the press and have originated in the brain of some reporter endeavoring to write up under a "scare" head, a subject of which he was ignorant or concerning which he had been greatly misinformed. A few months ago a leading newspaper in Cleveland, O., published, under startling headlines, the results of the investigations of an Ohio chemist, and among other instances of depravity mentioned, several samples of vinegar were cited that "contained acetic acid and were over half

water." As a matter of fact, the New York law permits 93½ per cent. of water in a cider vinegar and 95½ per cent. in a grain vinegar; acetic acid is the sour constituent of all vinegars and the only ingredient of hygienic value.

These sensational articles of the laity are not the only causes of misapprehension. Many chemists and officials, in reporting the results of their investigations, are betrayed into a warmth of expression that is not always warranted. It is hardly fair to brand a sample that falls a fraction of a per cent. below a state standard as "dastardly," "heinous," etc., and this is exemplified by again referring to vinegar. A sample that contains four per cent. of acetic acid (in grain vinegar) is standard in Wisconsin, but it cannot be sold in New York or Minnesota unless it contains one half of one per cent. more acid.

The conflict of local laws is well illustrated here, for this sample, which may be sold as pure and standard vinegar in Wisconsin, is defined by legislative enactment as adulterated in the states of New York, Ohio and Minnesota.

The publicity thus given to a grade or class of goods has often defeated the end the officials are striving to attain, as the consumer, hearing repeated tales of the impurity and bad effect of some class of goods that he habitually uses, and failing to observe the evil wrought in his own case, naturally concludes that the whole thing is a hoax, and in future pays no attention to these reports. A possible advocate of reform is thereby converted into a non-believer, and becomes a scoffer at organized effort to correct existing evils, arguing that he uses the food commonly found upon the market and that his father did before him with no evil results; and he therefore opposes the passage or execution of laws that are designed to protect himself and his progeny.

Another factor that exerts a large influence in curtailing the full benefit of the laws is is the inherent antipathy of America toward laws that savor in the least of paternalism. In England, Germany, and France, much more stringent laws are held in strict observance, but the people are accustomed to a monarchical form of government, and the restrictions imposed are consequently less irksome.

One of the difficulties encountered in punishing violations of the state laws lies in the construction of several of the statutes that fix an arbitrary standard of purity or strength for certain articles. The sale of goods not conforming to these requirements is made a misdemeanor, a quasi-criminal offense, and the dealer who unwittingly handles them and is detected is placed in the very unpleasant position of defendant in a prosecution of this sort. The supreme court of New Hampshire has held that this compulsory maintenance of an arbitrary standard is a valid exercise, by the legislature, of the police power for the prevention of fraud, and the New York law does not make fraudulent intent a necessary ingredient of the offense. Where such rigid construction of the law obtains, as a matter of justice and equity, the standard should be a moderate one, based upon actual experience extending over a long interval and considering every phase of the article involved, and not a requirement founded upon a hypothetical standard of purity or strength that conforms with theory rather than the conditions commonly met with.

Undoubtedly a merchant is presumed to have sufficient knowledge to discriminate between genuine and spurious goods, but, on the other hand, it seems equally true that he cannot be expected to differentiate between a vinegar, for instance, that contains four per cent. of acetic acid and one that contains four and one-half per cent. The estimation is one that requires a certain degree of skill in chemical manipulation, and beyond a mere guess, the retail merchant must rely upon the statement of the jobber or manufacturer from whom he buys, and who is frequently a resident of an adjoining state, where food laws are unknown or inoperative.

The system of state laws, differing like the inhabitants of ancient Gaul, inter sese, is productive of another evil.

A grade of goods may be made and sold in Illinois that would not comply with the requirement of the Wisconsin laws, and if it is assumed that the demands of the latter state are reasonable, the goods must be sold to the Illinois consumer or in another state likewise unprotected, and one state is thus compelled to accept, consume and pay for goods that are contraband in another. This would be obviated by a national law.

Under the present system, a dealer in Ohio may purchase goods from a jobber in Indiana, and, should he violate a law in their sale, he has no redress beyond a suit for damages, involving a small amount, and entailing an expensive suit, and the official who prosecuted the retailer would be powerless to impose any restrictions upon the manufacturer, who is beyond his jurisdiction. Many retail dealers, against whom charges are preferred for this reason, enter a plea of guilty and pay a nominal fine, rather than incur the publicity that a contest would involve. The merchant thus fined relies upon the probity of his jobber to reimburse him for his loss, and uses a threat of transference of patronage as a lever to compel restitution. If the entire 'country were governed by the same law, action could be begun against the party really guilty, and the annoyance and ignominy would be spared him whose only offense was too implicit a trust in his jobber.

In a case of this sort, it is extremely doubtful if any real good has been accomplished, and it is more than probable that the retail dealer becomes inimical and his cooperation is lost—a matter of some moment, for the laws can become successful only through the friendly aid of the retail merchants.

If the retail merchant were to purchase exclusively from manufacturers in his own state, it would be possible to reach the party who is really responsible for the fraud, but this would be using the statute to unfairly influence the commercial relations existing between sister states, and would be unlawful. A national law would remove this fault also.

It has been argued that any law restricting the sale of food is contrary to public policy, and that each individual should have the right to determine for himself what he should eat. This reasoning would be sound if every one had attained sufficient skill to be able to judge the matter; but this is a very remote contingency, and one that need not be taken into consideration. Laws regulating the manufacture and sale of food are as necessary as city ordinances restricting the construction of buildings, and have the same end in view, i. e., the safety of the public.

It has been asserted that the entire matter is one that pertains to the commercial world, and so long as an article is harmless it should be sold for what it will bring, without any legal restrictions. While the larger part of food adulteration is the mere practicing of a fraud in business transactions, and therefore amenable to the laws of commerce and barter and exchange, there is a phase that demonstrates clearly the necessity for legislative restriction, and an example shows this. If one cheesemaker produces a cheese from rich, whole milk and sells it for nine cents per pound, realizing a profit commensurate with his labor and investment, and a competitor produces a cheese made from milk from which he had previously removed all or a portion of the cream, which he converted into butter, the latter would reap a reward to which he was not entitled. It is true that the expert buyer would detect the removal of the fat and pay for the cheese accordingly; but when the cheese was put upon the counter of the retail merchant, the consumer, not possessing the experience and skill of the wholesale buyer, would pay the same price for either, but in the latter instance he would be deprived of a normal ingredient that is of great value to the food and to which he was justly entitled. Not only is the consumer entitled to protection in his pecuniary dealings, but the scrupulous manufacturer is in vital need of the law to protect his honest industry from the more questionable one.

The work that has been done in the last ten years by state food bureaus has demonstrated the need of laws, and

it has also shown the defects of local statutes and the want of national ones. The reports issued by these commissions show progress in the art of detecting adulteration, but what has achieved in checking it, it is difficult to estimate. Certainly the number of convictions and the amount paid in fines are indications of progress, but frequently the cases are similar to those cited above, where a plea of guilty is made and a fine paid as the least public method of settling the matter.

Many existing laws are mere experiments and have paved the way, by their inadequacy or unfairness, for a law that shall be broad and comprehensive, yet specific enough to be effectual. Any law that may be framed upon this subject must meet with one obstacle that will tend to restrict effectual work, and that is the American jury system. The aversion to paternalism is so strong and the ignorance of the average jury so dense that a conviction is almost an impossibility until such time as the people shall have been thoroughly educated. There are exceptions, where prejudice enters into the case, but a prejudiced jury is manifestly an unfair one. It is comparatively easy to convict a milkman of watering or skimming his milk before a city jury, whose members buy their milk from the wagon, and twelve farmers will probably convict a manufacturer of adulterated goods, but if the conditions are reversed, an acquittal is almost a certainty.

Still another difficulty in accomplishing adequate results under the existing circumstances lies in the fact that when an offense is detected and an action instituted, the state is generally compelled to present its case through the prosecuting or district attorney of the county in which the law was violated.

It matters little how skillful an attorney may be or how well he may be read in the law. Unless he has had some experience in technical cases, he is at a tremendous disadvantage when conducting a case in which a life-long familiarity with the subject is on the side of the defendant. True, the experts and officials are present to testify in be-

half of the state, but their knowledge and experience is useless it is skillfully brought out, and the attorney, cautiously feeling his way upon terra incognita is unable to take advantage of many opportunities that could be fully utilized by a lawyer whose business it was to conduct prosecutions under a national law, and who was thoroughly familiar with the techno-chemical questions involved.

A national law would be of vast benefit in the way of centralizing the work and lessening the expense of maintaining a corps of competent men, and, what is still more important, of improving the present methods of detection of adulteration and of devising new ones. In the chemical examination of foods it is much the same as in the art of war. No sooner is a gun invented that will penetrate any known form of armor, than an impenetrable armor is devised; and no sooner is a chemical method of detecting an adulterant perfected, than some genius produces a substance that is, for a time, comparatively safe from detection.

The chemist of a state food bureau is compelled to examine every article that is submitted, making hundreds of analyses each month; and working yesterday with vinegar, to-day with butter, and to-morrow with cream of tartar, he barely finds the time necessary to make a careful examination of each, and original work is out of the question. If the work were under government supervision, laboratories throughout the country could be fitted up for special work, and one chemist could devote his entire time to one line of food stuffs, and would thus be afforded ample time and opportunity to thoroughly investigate his specialty, and could keep pace with all that is being done.

A legal department would be a very necessary adjunct, and the attorney and his assistants could qualify themselves to conduct cases that require as much technical as legal knowledge.

In framing a bill for congress, some radical departures from the state codes will be necessary, but the prime feature in any law that may be passed should be to construct a statute that is founded upon reasonable demands, based upon a thorough practical knowledge of the properties and the process of manufacture of the article affected.

In the following pages, I have endeavored to separate the articles that have been received for analysis into classes as far as possible and to give the results that we have attained in the state laboratory in a form that will render them as accessible as possible.

The policy of the commission for the past two years has been formulated upon the idea that the prevention of adulteration is better than its punishment, and where goods have been found below the standard, to look up the manufacturer, communicate with him where it was possible and by securing the co-operation of the maker of goods, if possible, to keep pure the supply that emanates from his establishment.

On the eleventh of October last, the following circular in relation to vinegar was issued from this office and a copy sent to every newspaper in the state and many aided us by publishing the circular and sending us marked copies and the number of samples of vinegar received very materially increased.

Madison, October 11, 1893.

TO THE EDITOR:

Sir A misunderstanding as to the scope and intent of the vinegar law seems to prevail among the retail grocers in Wisconsin, and as the matter is one that interests every community, we hope that you will give this open letter space in your paper, as much for the benefit of your readers as for the protection of your merchants.

Chapter 394 of the laws of 1891, provides a penalty for the sale of vinegar that does not conform to certain conditions therein expressed and the seller is made liable to a prosecution for a misdemeanor, the penalty for for which is a fine fixed from \$10.00 to \$100.00. Briefly, the law requires that all vinegars shall have an acidity equivalent to 4 per cent. of acetic acid and that all cider vinegars shall contain, in addition, 2 per cent. of cider vinegar solids. The dealer who handles goods not conforming to these requirements is liable to arrest and trial, and ignorance of the quality of the goods is not a sufficient defense.

The majority of jobbers and manufacturers doing business in Wisconsin endeavor to supply their trade with goods in full conformity to the standard, but this department deems it incumbent, for the best interests of the

Wisconsin trade to state that certain manufacturers outside of this state have been most persistent and open violators of this statute, relying upon their location to protect them from the provisions of the law. Circulars, containing letters from several chemists, constitute one of the chief means that they employ to make sales and while these chemists guarantee the harmlessness of the vinegar, not one in the entire number gives a single percentage either of acids or solids, a vital point in Wisconsin. Another noticeable feature of the circular is that none of the chemists are in any way connected with any food bureau where an arbitary standard for vinegar is fixed. Of eighteen samples that have been recently analyzed by this department, not one is of a grade that does not lay the retailer liable to prosecu" tion. The most feasible plan of insuring a supply of legal vinegar is to buy, subject to the state test and send an eight ounce sample to the Dairy and Food Commissioner, at Madison, giving the brand on the barrel and the maker's name. The vinegar will be promptly reported upon free of charge and the merchant can then pay for his goods and sell them in security. This course will avoid any possible lawsuit and secure what we wish to ask, the cooperation of the Wisconsin trade in enforcing the law.

Yours respectfully,

D. L. HARKNESS, Dairy and Food Commissioner.

This circular called forth a letter from the Ohio Dairy and Food Commissioner, Hon. F. B. McNeal in the American Cider Maker for the month of January, 1894, in which he severely condemns the line of work, urging that the certificates so sent out could be used to furnish protection to the maker and vendor of dishonest goods.

The certificates which are furnished from this laboratory are worded in such a manner as to apply to the sample in question only, and not to the entire output of a factory, as Dr. McNeal seems to think. By far the greater percentage of samples that have been received at the laboratory during the past two years have come directly from dealers in our own state who have asked for information that would warrant them in continuing the sale of a certain consignment of goods, and if they afterward choose to falsify these goods or sell others of a different quality under the certificate of the former, the right of the commission to prosecute could in no sense be considered to be abrogated nor would the production of such a certificate

be a good defense. The certificate applied only to the sample that was actually received at the laboratory and could not be made to cover any other.

Dr. McNeal further alleges that the expense of making the analysis would be enormous, figuring that there are 7,000 retail grocers in Ohio, and if two consignments per year were received from each, the total number of samples to be analyzed would reach the large figure of 14,000 samples, and these, he says, would cost \$70,000 to analyse. At this rate the Ohio dairy and food commission pays \$5.00 for a determination of vinegar, and these figures which they give, show the very marked superiority of the method of the Wisconsin laws in retaining a chemist by the year.

The highest number of vinegar samples tested in one day in our laboratory was forty-three, and at the rate that Ohio pays for the work, it would have incurred an expenditure of \$215 for a single day's work.

Dr. McNeal, in the letter mentioned, says: "Our experience in Ohio teaches us that there is but one effective way to deal with this question: that is, to get our own samples over the counters of retail dealers, just as any other customer does, hold them (the dealer) strictly accountable to the law, and give the retail dealers full redress against jobbers or manufacturers in civil action for all costs and damages arising out of such transaction. A civil contract of that kind could be enforced in a United States court, if out of the state until such time as we get a national pure food law."

This method of procedure seems to give the retail merchants no opportunity whatever to obtain any reliable information in regard to the vinegar they buy and furthermore, it reads as though the jobbers and manufacturers were given immunity for inspection.

The civil action in the United States court is something that the Ohio Dairy and Food Commission cannot in the least control, and while action on contract could certainly be maintained in the United States courts, as pointed out in the preceding pages, it is very questionable whether a merchant could afford to bring an action to recover the bill of say, six barrels of vinegar, and then again, he would be compelled to go through the odium of a trial and the consequent distrust that his conviction would engender in the minds of his customers.

The method of giving him some authentic information in the beginning and then holding him to a strict accountability for the goods afterward seems to be as rational a proceeding as any and under our system of maintaining a laboratory and engaging a chemist by the year, is as cheap a method of dealing with the question as any system that is feasible.

The following pages of my report I have devoted to the tabulated statements of work done and remarks that seemed to be apropos under the various heads.

MILK.

A glance at the tables inserted will very quickly show that the greater part of the samples received are of milk. The fat is estimated by the Babcock method which has been found perfectly reliable, quick and easy of manipula-The method has been generally discussed in the various agricultural journals and in the bulletins from the Agricultural Experiment Station; but frequent calls for explanation of it have made it seem advisable to once more insert the modus operandi in this report. In some instances the solids of milk have also been estimated more as a satisfaction to the chemist than for any material use they would be in a prosecution. It is highly desirable that Wisconsin should follow the lead of the other dairy states and enact a law that would make 12 per cent. of solids a standard. There are numerous instances where a milk has contained the requisite 3 per cent. of fat while the percentage of solids showed conclusively that the article had been watered, but without a standard for solids as well as fat it is a difficult matter to obtain a conviction and the fixing of a standard of total solids by the coming legislature cannot be too strongly urged.

It is a source of satisfaction to be able to say that the milk supply of the state has shown a very good average of fat, cases of adulteration being very rare when the large number of samples examined is taken into consideration.

Mr. Charles Todd, the assistant in the laboratory, has devoted much time to the study of the Babcock test from the practical standpoint and after experimenting, he came to the conclusion, about the same time as Prof. Farrington, that the burning of the samples was often due to the manner in which the acid was added and by tilting the bottle to one side and allowing the acid to flow under the milk instead of pouring into milk tumultuously, this blackening could be almost entirely obviated.

It is generally recognized that a creamery or cheese factory cannot be successfully run without there is adopted some test by which the butter fat of the milk can be readily and accurately determined.

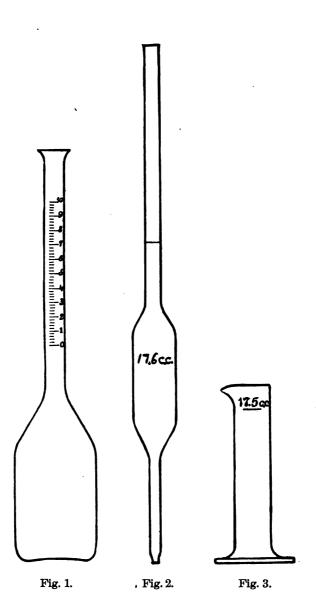
The general analysis of milk is a much more complex problem, requiring the services of an experienced chemist and the use of costly and delicate apparatus but by the Babcock method, the butter fat can be rapidly and accurately determined and, indeed few factories in this state have the temerity to run without one.

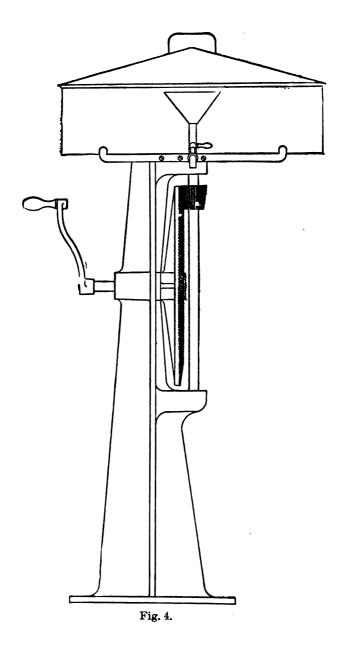
The method here given is essentially the one followed in the laboratory of the Dairy and Food Commission and presents no difficulties if the instructions are carefully read and properly followed.

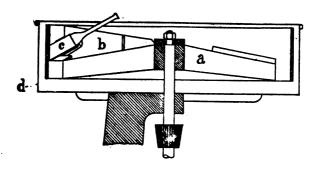
There is a variety of centrifugal machines upon the market, many of them more convenient than the one described in the cut, which is somewhat too large and cumbersome.

DESCRIPTION OF APPARATUS AND CHEMICALS REQUIRED.

- 1. Test Bottles (Fig. 1.)—These are of the form shown in the cut. They should contain up to the neck not less than 40 cc., and not more than 45 cc. Each division of the graduated scale upon the neck represents .04 cc, and in order to facilitate the reading, the neck is made of such a diameter that the marks of the scale are about 1½ millimeters apart. Five of these divisions are equivalent to 1 per cent. of fat whem 18 gms. of milk are used in the test, it being assumed that the specific gravity of the butter fat, at the temperature at which the reading is made (about 120 degrees F.), is 0.9.
- 2. Pipette for Measuring Milk.—This may be of any form, but that shown in fig. 2, with a rather wide opening at the lower end to allow the milk to run out rapidly is to be preferred. It should contain when filled to the mark, 17.6 cc. A pipette of this size will deliver a little less than 17.5 cc. of milk. The quantity of milk required for the test sample of 18 gms. is 17.44 cc., if the milk has the average specific gravity of 1.034.
- 3. A Measure for the Acid.—A graduate or cylinder of glass (Fig. 3), with a lip to pour from and a single mark at 17.5 cc. is the best form for general use. In laboratories a large burette, holding 100 cc. or 200 cc., and having a glass stop-cock, may be used to advantage, but on account of the liability of breakage is not to be recommended in factories or private dairies.
- 4. A Centrifugal Machine.—Figs. 4 and 5 show the construction of the machine used by us. The gear in this apparatus is so proportioned that the wheel which carries the test bottles makes about ten revolutions to one of the crank, with this it is easy to impart from 700 to 800 revolutions per minute to the horizontal wheel. Any arrangement that will do this, either by belt or gear, will answer the purpose. Within the horizontal wheel (a, Fig. 5) are placed sectors (b) made from heavy sheet copper to which are soldered cups or tubes (c), inclined so as to make an







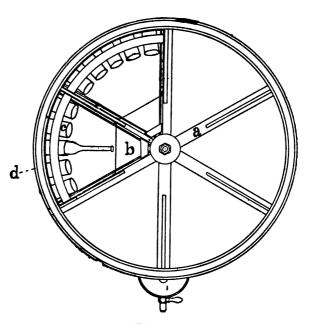


Fig. 5.

angle of about thirty degrees with the horizontal, for the support of the test bottle. The horizontal wheel is surrounded by a copper jacket (d, Fig. 5) with a cover. This serves the double purpose of supplying heat for the test by pouring hot water into it, or by heating water directly with a lamp placed beneath, and of arresting the hot acid which would fly off if a bottle should break.

- 5. A kerosene or gas lamp for heating two or three quarts of water to boiling.
- 6. Commercial Sulphuric Acid, having a specific gravity of 1.82 or about 90 per cent. pure. If only the pure acid is available, it should be diluted with water to the strength indicated.

MAKING THE TEST.

Sampling the Milk. — Every precaution should be taken to have the sample represent as nearly as possible the whole lot of milk from which it is taken. Milk fresh from the cow, while still warm, and before the cream has separated in a layer, may be thoroughly mixed by pouring three or four times from one vessel to another. Samples taken at once from milk mixed in this way are the most satisfactory of any. Milk that has stood until a layer of cream has formed should be poured more times, until the cream is thoroughly broken up and the whole appears homogenous. No clots of cream should appear upon the surface when the milk is left quiet for a moment. With proper care any of milk that has not coagulated or that has not been exposed to the air until the surface of the cream has become dried, may be mixed so that a representative sample may be taken. Milk should not be poured more times than is necessary, as continual mixing in this way is liable to churn the cream, forming little granules of butter that quickly rise to the surface. When this occurs it is impossible to obtain a fair sample. Milk is sometimes churned by being transported long distances in vessels that are not full. When this occurs it is useless to make an examination.

It is impracticable to sample a large amount of sour milk, but a small sample of a pint to a quart may be thoroughly mixed by adding five per cent. of strong ammonia water which will dissolve the curd and permit a uniform mixture being made. When ammonia is added the final results should be increased by five per cent. Samples from sour milk are, however, never as satisfactory as those taken when the milk is in a proper condition.

Measuring the Milk. - When the milk has been sufficiently mixed, the milk pipette is filled by placing its lower end in the milk and sucking at the upper end until the milk rises above the mark on the stem; then remove the pipette from the mouth, and quickly close the tube at the upper end by firmly pressing the end of the index finger upon it to prevent access of air; so long as this is done the milk cannot flow from the pipette. Holding the pipette in a perpendicular position, with the mark on a level with the eye, carefully relieve the pressure on the finger so as to admit air slowly to the space above the milk. When the upper surface of the milk coincides with the mark upon the stem, the pressure should be renewed to stop the flow of milk. Next, place the point of the pipette in the mouth of one of the test bottles, held in a slightly inclined position so that the milk will flow down the side of the tube leaving a space for the air to escape without clogging the neck, and remove the finger, allowing the milk to flow into the bottle. After waiting a short time for the pipette to drain, blow in the upper end to expel the milk held by capillary attraction in the point. If the pipette is not dry when used, it should be filled with the milk to be tested, and this thrown away before taking the test sample. If several samples of the same milk are taken for comparison, the milk should be poured once from one vessel to another after each sample is measured. Neglect of this precaution may make a perceptible difference in the results, through the separation of cream, especially when the milk examined is rich.

Persons who have had no experience in the use of a pi-

pette will do well to practice a short time by measuring water into a test bottle before attempting to make an analysis. The manipulation is easily acquired, and with a little practice, milk may be measured nearly as rapidly with a pipette as with a graduate, and with much greater accuracy.

Adding the Acid.—When the milk has been measured into the test bottle the necessary amount of sulphuric acid may be added immediately, or the bottles may be left for a day or two without materially changing the results; samples that have remained in the test bottles more than a week have given the same amount of fat as samples tested immediately after being measured. If the milk has become coagulated, the curd should be up by shaking the test bottle before the acid is The volume of commercial sulphuric acid readded. quired for a test is approximately the same as that of the milk, 17.5 cc. for the ordinary test. If too little acid is added, the caseine is not all held in solution throughout the test, and an imperfect separatiton of the fat results. If too much acid is used, the fat itself is attacked. acid need not be measured with great accuracy, any quantity between 17 cc. and 18 cc. will answer the purpose.

Great care must be taken in handling the acid to avoid getting any of it upon the skin or clothing, as it is very corrosive. If by accident, any is spilled upon the hands or clothes, it should be washed off immediately, using plenty of water. A prompt application of ammonia water to clothing upon which acid is spilled may prevent the destruction of the fabric, and restore the color.

When all of the samples of milk to be tested are measured ready for the test, the acid measure is filled to the 17.5 cc. mark with sulphuric acid, and from this it is carefully poured into a test bottle, containing milk, that is held in a slightly inclined position for reasons given in directions for measuring milk. The acid being much heavier than milk sinks directly to the bottom of the test bottle without mixing with the milk that floats upon it.

The acid and milk should be thoroughly mixed together by gently shaking with a rotary motion. At first there is a precipitation of curd from the milk, but this rapidly dissolves. There is a large amount of heat evolved by the chemical action, and the solution, at first nearly colorless, soon changes to a very dark brown, owing to the charring of the milk sugar and perhaps some other constituents of the milk.

Upon standing a short time the fat begins to collect upon the surface, not in a clear layer, but having at first, the appearance of a dirty cream. The separation of fat by gravity alone is not complete even when the bottles are left standing for several hours; with the centrifuge, however, a perfect separation is accomplished in a few minutes.

Whirling the Bottles.—The test bottles containing the mixture of milk and acid may be placed in the machine directly after the acid is added, or they may stand several hours without harm. An even number of bottles should be whirled at the same time and they should be placed in the wheel in pairs opposite to each other, so that the equilibrium of the apparatus will not be disturbed. When all of the test bottles are placed in the apparatus, the cover is placed upon the copper jacket, and the machine is turned either by hand or by power at such a rate that the wheel carrying the bottles will make from 600 to 800 revolutions per minute, and this motion must be kept up for six or seven minutes. If this wheel is less than about twenty inches in diameter, the speed should be greater, or else the whirling should be continued for a longer time.

When the bottles are placed in the machine directly after the acid is added the separation may be affected without any extra heat, as that caused by the chemical action is sufficient to keep the fat liquid. If the bottles have stood after the acid is added until the contents are cooled below 100 degrees F., the water in the tank should be warmed to about 200 degrees F. before putting the bottles in the machine. The bottles should not be kept heated in the ma-

chine as high as the boiling point of water while the separation is being effected. The proper degree of heat may be obtained by lighting the burner or kerosene stove under the jacket when the machine is started; so much water having been poured into the jacket as will be just heated to boiling when the whirling is finished. In this way, hot water is always available for filling the tubes at the proper time. In creameries, heat can be most easily supplied by steam connection with the boiler. If the machine is stopped after about six minutes, a layer of fat will be found upon the upper surface of the liquid in the tubes. This fat will not usually be clear; this, however, will make no difference in the result, as the subsequent treatment will clarify it.

As soon as the bottles have been sufficiently whirled, they should be filled to the neck with hot water. This is most conveniently done by placing a vessel containing boiling water above the machine and by means of a syphon, made from a small rubber tube with a glass tip, run the water directly into the bottles without removing them from the wheel. The flow of water can be perfectly controlled by a pinch-cock upon the rubber tube. If only a few tests are to be made, the bottles may be easily filled with a pipette, or by pouring from a graduate.

The cover should then be replaced and the machine turned for one or two minutes after which more hot water is added, filling the tube to about the seven per cent. mark. The fat will slowly rise into the graduated tube, losing its cloudy appearance as it passes through the hot water. When all of the bottles are filled the cover is put upon the tank and the machine again turned for a short time. During this time the water in the tank should be kept hot, either by placing a lamp or kerosene stove beneath it, or by pouring in a quantity of boiling hot water before starting the machine. If the fat in some of the tubes still has a cloudy appearance, the cover should be placed upon the tank and heat applied for a few minutes, when the fat should become clear and in condition to be measured. The clearing may be rastened by whirling the

tubes while hot. When the bottles are allowed to cool off to a point where the fat will crystallize and then warmed again, the fat will usually be much clearer than before but as this does not materially change the volume of fat it is considered unnecessary. Even a slight cloudy appearance does no harm.

Measuring the Fat.—The fat when measured should be warm enough to flow readily, so that the line between the acid liquid and the column of fat will quickly assume a horizontal position when the bottle is removed from the machine. Any temperature between 110 degrees F. and 150 degrees F. will answer, but the higher temperature is to be preferred. The slight difference in the volume of fat due to this difference in temperature is not sufficient to materially affect results. A difference in temperature of .40 degrees F. will make less than one-tenth per cent. difference in milk containing five per cent. of fat. To measure the fat, take a bottle from its socket, and holding it in a perpendicular position with the scale, on a level with the eye, observe the divisions which mark the highest and lowest limits of the fat. The difference between these gives the per cent. of fat directly. The reading can easily be taken to half divisions or to one-tenth per cent.

If the column of fat is less than about one division, as will sometimes happen with skimmilk, buttermilk or whey it may assume a globular form instead of a uniform layer across the tube; when this occurs, the fat can usually be estimated with sufficient accuracy by simple inspection, but if an accurate reading if desired, it may be obtained by taking four samples of the milk in four test bottles, and after treating them in the usual way, until the bottles are ready to be filled with water, adding water to three of them only, filling them as full as possible without running them over. After whirling them for a minute to bring the fat all into the neck, the fat may be poured off from these three tubes into the fourth. If any fat remains adhering to the sides of these tubes, they should be filled a second time with water and the remaining fat poured into the fourth

bottle, which is then filled with water, whirled and the reading taken; this divided by four will give the per cent. of fat.

A better way would undoubtedly be to have a special test bottle, holding three or four times as much as the ordinary bottle, that could be used for skimmilk, buttermilk and whey. Three or four times the usual test sample could then be taken and by adding the proper quantity of acid, the test could be made without transferring the fat.

Cream.—The chief difficulty in testing cream lies in the sampling. Cream that is sour, or that has been exposed to air until the surface has dried, cannot be accurately sam-The same is true of centrifugal cream that is badly Sweet cream, from Cooley cans, that is not too thick to flow readily from the pipette may be tested with satisfactory results. The process, however, must be modified slightly from that used with milk, as the amount of fat in cream is so large that it cannot be measured in the ordinary test bottle, if the usual quantity is taken for the test, besides a much greater error results from the cream which adheres to the pipette than with the milk. Both of these difficulties may be overcome by taking two or three test bottles and dividing the test samples into as nearly equal portions as can be judged by the eye. The pipette is then filled with water and this is run into the tubes in the same way as the cream. If three bottles are taken the pipette is filled with water the second time and emptied into the bottles as before. This serves to rinse the cream from the pipette, and at the same time to dilute it to a point where it can be tested in the same way as milk. bottles are then treated in the usual manner, and the reading of the tubes added together for the per cent. of fat in the cream.

Owing to the low specific gravity of cream, the test sample, if of the same volume, will weigh less than that of milk, and consequently the per cent. of fat as shown by the scale will be less than is found by garvimetric analysis,

in proportion as the weight is less than 18 gms. Where a delicate balance is available, this error may be entirely avoided by weighing the cream used in the test, and calculating the per cent, of fat by multiplying the scale reading by 18, a being the weight of the cream taken.

If 17.6 cc. of cream is taken and the portion adhering to the pipette is rinsed into the test bottle, a close approximation of the true result may be obtained without weighing by correcting the scale reading as follows: For a scale reading of 20 per cent., add .25 per cent.; for a scale reading of 15 per cent., add 0.1 per cent. Readings between these may be corrected in proportion. Below 10 per cent. no correction is necessay.

ANALYSES OF MILK.

Lab. No.	Name.	P. O. Address.	Amount test.
5767	W. Popploe	Cambridge	4.10
5768	F. Lebom.	do	4.20
5769	Simdon & Henderson	do	4.00
5770	K. Henderson	do	3.80
5771	C. Schenskoe	do	4.40
5772	John Gee	do	4.00
5773	Tom Johnson	do	3.70
5774	F. Zreloff	do	3.40
5775	W. Simonson	do	4.00
5776	Mrs. Knutson	do	4.00
5777	E. Volenberg	do	4.70
5778	John Johnson	do	4.20
5779	J. Mattheson	do	3.80
5780	Baker Bros	do	8.80
5781	A. Johnson	do	4.40
5782	A. Tarblen	do	8.90
5783	W. Potter	do	4.70
5784	R. Irwin	do	3.00
5785 5786	J. Christian	do	4.80
5787	Mrs Firgerson	do	4.00
5788	M. Sevanson	do	4.40 4.40
5789	H. Michel:	do	4.00
5790	H. Buxstard	do	5.00
5791	Mrs. Kickhelly	do	3.80
5792	Potter Bros.	do	5.40
6798	E. N. Potter	do	4.00
5794	W. R. Potter	do	4.20
5795	N. Anderson	do	4.00
5796	P. Severson	do	3.80
5797	J. L. Severson	do	3.80
5798	J. Haynes	do	4.20
5799	H. Goodrich	do	3.90
5800	S. S. Potter	do	4.20
5801	A. Throunson	do	4.10
5803	Englebertson	do	4.60
5803	G. H. Snell	do	8.50
5804	G. Black	do	3.40
5805	North Separator	do	0.60
5806	South Separator	do	0.10
5807 5808	Mrs. Plitz	Saxville N	3.80
5809	Mrs. Plitz	doM	4.80
5810	Mrs. Behn	do	4.20 4.40
5811	A. Paap	do	4.60
5812	A. Paap	do	4.50
5813	L. Timme.	do	3.90
5814	L. Timme	do	3.60
5815	W. Bauer		4.40
5816	W. Bauer	do	4.10
5817	C. Hintz	do	3.40
5818	C. Hintz	do	4.60
5819	C. Hinzfield	do	4.00
5820	C. Hinzfield	do	4.00
5821	C. Tesche		3.60

Lab. No.	Name.	P. O. Address.	Amount test.
5822	C. Tesche	Saxville	3.50
5823	Albert Roberts	do	4.80
5824	Albert Roberts	do	5.00
5825	F. Strey	do	4.30
5826	F. Strey	do	4.40
5827	A. Roggan	do	
5828 5829	A. Roggan	do	3.80 4.90
5830	H. Finn	do	5.00
5831	H. Finn	do	3.80
5832	A. Romer	do	4.20
5833	Ed. Barwich	Richmond	3.80
5834	Wm. Groppe	do	2.0
5835	Aug. Bohman	do	
5836	A. F. Staeber	do	
5837	V. Tabocheck	do	
5838	Aug. Hoppe	do	4.20
5839	James Eagen	do	4.00
5840	F. Kriziger	do	
5841	N. Lemerhirt	do	
5842	Chas. Hoppe	do	
5843	James Plasher	do	3.40
5844	James Roche	do	4.20
5845	J. Burke	do	4.20
5846	Mrs. McCarty	do	
5847	Chas. Abert	do	
5848	Mike McCarty	do	
5849	John McAdauis	do	
5850 5851	Thomas Raedy	do	1
5852	Chas. Eggert	Richmond	1 7
5853	H. Lemerhirt.	do	4.50
5854	F. Slide.		1 7751
5855	Ed. McCall.		
5856	R. J Donohue		. =-::
5857	M. Berigan		3.70
5858	A. Kelm		. 4.00
585 9	M. Solon	do	
5860	Mrs. Donohue	do	
5861	H. Thayer		
5862	H. L. Rice	do	
5863	E. Hart		
5°64	F. Nichalous		
5865	J. Needecken		
5866 3867	N. Bendoiph		
5868	A. Swoboda O. Marshall		
5869	F. Rice.		
5870	W. P. Meachan		1 7172
5871	E. T. Adkins.		
5872	George Lake,		
5873	F. Loomis		
5874	A. Brigham	do	
5875	Mrs. E. Brigham	do	. 5.20
587 6	E. Hart		. 8.70

Lab. No.	Name.	P. O. Address.	Amount test.
5877	L. Recknagle	Troy Center	5.00
5878	Ludtke Bros.	do	4.50
5879	Joseph Boboda	do	4.40
5880	I. L. Singbuska	do	4.40
5881	W. Swoboda	do	4.10
5882	Charles Erdman	do	5.80
5883	Dan. Spaight	do	4.10
5884	Aug. Brown	do	8.60
5885	Alex. McKinzie	do	4.30
5886	H. Huth	do	4.60
5887	James Burns	do	8.60
5888	Wm. Walbrant	do	5.00
5889	Jack Bliss	do	1.10
5890	T. Madden	do	4.20
5891	T. Brown	do	4.20
5892	M. O'Connor	do	5.00
5893	R. McKinzie		4.20
5894	Al. Brown	do	3.80
5895	W. Carmarth		4.00
589 i	R. Recknagle	do	4.60
5897	E. R. Balsley	do	
5898	T. Enright	do	
5899	H. Kaiser	do	4.60
5900	L. Barker	do	4.20
5901	George Kaizer	do	4.40
5902	S. Conklin		4.20
5903 5904	Will Snade	do	4.30
5904 5905	A. Bohda.	do	4.20 5.00
5906	George McKinzie	do	3.90
5907	C. Bohda H. Vant.	do	4.00
5908	D. McCall	l — -	4.60
5909	E. T. Evans	Ixoniado	4.60
5910	H. Appler	do	4.40
5911	T. W. Jones		
5912	A. Timmell	do	4.00
5913	J. Linderman	do	4.90
5914	Ed. Eichman	. do	
5915	J. M. Jones.	. do	4 80
5916	D. Lewis	do	3.60
5917	H. E. Humphrey	do	4.10
5918	Otto Lee	do	4,20
5919	Mrs. Ruttledge	do	5.00
5920	Even Res	do	4.40
5921	B. Bauman	do	4.40
5922	Fred. Hebner	do	4.00
5923	E. Humphrey	do	5 00
5924	C. Pautz	do	5.40
5925	D. E. Owen	do	4 00
5926	East Separator	do	0.20
5927	West Separator		
5928	Lewis & Kester		
5929	John Kester	do	
5930	O. Klingholtz		
5931	C. Miller	dodo	6.00

Lab. No.	Name.	P. O. Address.	Amon: t
5932	Charles Bull	Manitowoc	4.20
5933	Henry Carston	do	5.80
5934	Fred Samp	do	5.50
5935	Rich. Klengholz	do	3.60
5936	John Drumn	do	4.60
5937	Jake Brie	do	4.60
593 8	A. Fischer.	do	8.40
5939	W. Drumm.	do	5.20
5940	Charles Hoffman	do	7 00
5941	Herman Meyer	do	4.86
5942	M. Madison	Neenah	3.90
5943	M. Madison	do	4.00
5944	H. F. Larson	·· do	3.70
5945	H. F. Larson	·· do··············	4.00
5 946 5947	C. Oleson.	do	4.20
5941 5948	C. Smith.	do	4.40
5949	C Smith.	do	4.80
5950	John Storm	do	5.20
5951	John Storm	do	4.80
5952	H. Reasse	do	5.00
5953	H. Reasse	·· do	5.20
5954	Mrs. J. Peterson	do	5.20 4.60
5955	Mrs. J. Peterson	do	5.20
5956	C. Werth.	do	5.20 5.20
5957	C. Werth	do	5.80
5958	A. Riepenberg.	do	5.80
5959	A. Riepenberg	do	6.00
5960	C. Sarenson	. do	4.00
5961	C. Sarenson	do	4.00
5962	C. C. Rasmunson	. do	3.90
5963	C. C. Rasmunson	do	4.00
5964	J. Jacobson	do	4.60
5 965	J. Jacobson	do	4.60
5966	C. Jorgenson	do	4.80
5967	C. Jorgenson	do	4.40
5968	George Allenson	do	4.40
5969	George Allenson	de	4.80
5970	Jacob Jacobson	. do	4.00
5971	Jacob Jacobson	do	4.10
5972 5973	Hans Hansen	do	8.40
5974	Hans Hansen	do	3.50
5975	C. Derby	do	4.30
5976	C. Derby F. Lauer	do	4.40
5977	F. Lauer	do	4,80
5978	F. Laudig	do	4.80 3.60
5979	F. Laudig	do	3.00
5980	J. Michelson.	do	4.40
5981	J. Michelson.	do	4.40
5982	Jens Lorenson	do	8.70
5983	Jens Lorenson	do	8.60
5984	E. Mueller.	. do	4.20
5985	E. Mueller.	. do	4.60
5986	R. Radick	do	8.90

Lab. No.	Name.	P. O. Address.	Amour t test.
5987	R. Radick	Neenah	3.80
5988	Geo Hansen	do	4.60
5989	Geo. Hansen	do	4.70
5990	C Christianson	do	4.10
5991	J. D. Hollerson	do	4.20
5992	J. D. Hollerson	do	4.50
5993	F. Jennejohn	do	4.80
5994	F. Jennejohn	do	4.10
6028	C. Bishop	Bristol	4.20
6029	George Shields	do	4.50
6030	F. Leonard	do	4.20
6031	H. Firchow	do	4 10
6032	Dan Farnum	ˈdo	5.80
6033	W. Watkins	do	4.40
6034	F. Garland	do	4.60
6035	W. Bacon	do	3.80
6036	J. Bryon	do	4.90
6037	C. Bohn	do	4.10 4.60
6038	J. Fitzloff	do	1
6039	A. Schonschek	do	4.60
6040 6041	R. Stonebrecker	do	
6042	G. Curtis	do	
6043	Skim milk	do	10
6044	Butter milk	do	30
6945	J. Ramtesky	do	4.00
6046	D. Bolton	do	
6047	P. Bishop	do	5,00
6048	John Lacey	do	4.20
6049	N. Mayer	do	3.80
6050	Tom Hadicon	do	3.90
6051	John McAllister	do	4.20
6052	Lary O'Brien		4 20
6053	C. P. Gaines	do	4.00
6054	Aug. Paasch	do	3.10
6055	Ed. Fox	do	
6056	Jim Britton	do.,	
6057	C. Anderson		
6058	Skim milk	do	4.20
6059	John Millen	do	
6060	Hiram Bryant	<u>.</u> do	
6061	F. Went, Jr	East Troy	4.20
6062	C. Mulaney	do	
6063	C. Wickes	do	
6064	C. Kuhl	do	
6065	P. Mies	do	
6066 6067	W. Henry	do	
·60 6 8	Ed. Shields	do	1
6069	Sol Duncan	do	2.21
6070	Fred Wendt, Sr	do	1
6071	William Horn	do	4.00
6072	Tom Turner	do	
6078	W. Harmon		
~~10	Carl Huth.		

Lab. No.	Name.	P. O. Address.	Amourt test.
6075	W. Hately	East Troy	3.00
6076	A.O. Geary	do	4.20
6077	I. Wood	do	3.70
6078	Geo. Burton	do	4.00
6079	John Mitchel	do	3.80
6080	A. Lummis	do	4.00
6081 6082	Rurget Bros	do	5.60 3.80
6083	John Spaicht	do	4.00
6084	W. Dennis	do	4.20
6085	C. Altenberg	do	3.80
6086	James Croswait	do	
6087	A. O. Brownlee	do	5,40
6088	M. Heinebauch	do	4.40
6089	John Nott	do	3.80
6090	Pat. Farrell	do	3.80
6091	John Giest	do	3.80
6093	Ed. Ward	do	3.80
6098	James Brady	do	4.00
6094	M. Croswait.	00	4.00
6095 6096	Mrs. shannon	do	4.20 4.20
6097	E. J. Mitchel	do	3.90
6098	Thomas Croswait	do	4.20
6099	John Pick	do.	4.89
6100	A. Justin.	do	4.19
6101	Charles Brown	do	3.29
6102	R. Reisenthel	do	
6103	John Bushman	do	
6104	W. Colbo	do	
6105	John Funk	do	4.20
6106	Tom Wabrick	do	
6107	Van Hill	do	
6109 6110	J. H. Kaizer	Madisondo	4.00
6111	Prof. W. Daniels	do	
6112	McCauly & Brown	do	
6113	H. Gombert	do	1 2.22
6114	W. H. Harwood	do	
6115	J Castle	Mendota	4.40
6116	Justin Fuss.	Madison	
6117	J J. Pfister	do	
6118	J. P. Woodard	do	
6119	Ludwig Lenzer	do	
6120	W. H. Harwood	Ochbosh	
6121 6 124	R. Cader	Oshkoshdo	1
6125	Chas. W. Mayer	do	4.40
6126	J. C. Fuller	do	4.40
6127	Jake Schappes	do	
6128	Joe Schunutch	do	
6129	Aug. Damon	do	5.20
6130		do	
6181	Aug. Schultz O. F. Schannon	do	2.40
6132	A. Pfeil	do	4.20

Lab. No.	Name,	P. O. Address.	Amount test.
6133	George Rogua	Oshkosh	3.20
6134	B. E. White	do	4.20
6135	L. Fauet	do	8.20
6136	E. Clark	do	4.20
6137	Aug. Grundman	do	8.90
6138	J. R. Washburn	do	6.20
6139 6140	Charles Theix	do	4.00
6141	R. C. Streeter	do	4.20
6142	George Blackburn	do Union Grove	3.80 4.80
6143	John Sumpter	do	3.90
6144	Elmer Barrows.	do	3.60
6145	John Bever	do	3.80
6146	H. Rosendale	do	3.80
6147	C. DeGragh	do	4.20
6148	F. Adams	do	3.70
6149	J. Barnes	do	4.20
6150	O. Esmond	do	3.40
6151	G. McFarland	do	8.40
6152	W. Roberts	do	3.80
6153	G. Willmore	do	
6154	F. Swantz	do	4.60
6155	H Swantz	do	8.90
6156	F. Diddile	do	3.80 4.40
6157 6158	W. Savage	do	4.40
6159	T. Witches	do	3.80
6160	J. Maurice	do	4.00
6161	T. Davis.	do	4.20
6162	J. Mildrum	do	4.00
6163	J. Martin	do	4.20
6164	H. Morey	do	3.80
6165	Joe Maurice	qo	4.00
6166	Geo ge N lson	do	4.20
6167	W. Willmore		
6168 6 169	A. B. Hayes Frank Lincoln	do	4.20
6170	G. Jenson	do	4.20
6171	Skim milk		1.40
6172	Skim milk	• • • • • <u>-</u> • • • • • • • • • • • •	0.20
6178	Butter milk	do	0.20
6174	O. P. Johnson		4.00
6175	Mike Gratz	do	3.80
6176	B. Wyke	do	3.60
6177	Wm. Gunter	do	3.60
6178	John Behlm	do	3.60
6179	F. Brehm	do	
6180	James Mattey	do	
6181 618 2	R. T. Peters	do	
6183	Frank Terry	do	3.80
6184	Mat. Fouk	do	
6185	Mike Henegen	do	
6186	Fred Frietaz.		
6187	Wm. Drinkwater	do	

Lab. No.	Name.	P. O. Address.	Amount test.
6188	A. Weber	Paris	3,60
6189	C. Schwan	do	4.40
6190	John Terry	ldo	3.80
6991	John Thomas	do	3.60
6192	A. Harn	do	3.80
6193	J. Haney		4.80
6194	D. Kirk		3.40
6195	Nick Terry		4.00
6196	N. Spartz	do	4.20
6197	Skim milk	do	0.20
6198	Skim milk	do	0.20
6199	Wm. Terry	do	3.40
6200	Wm. Bunker G. Hanson	Clinton Junction	2.00
6201	G. Hanson	Cobb	4.20
6202	J. Vass	do	4.00
6203	A. Hang.		3.80
6204 6205	W. Feliback		3.60 3.60
6206	H. A. Culver		
6207	G. Callow		4.00 3.60
6208	L. Everson		3.60 3.60
6209	Larson Barks		3.70
6210	J. Watkins H. Stiles	do	4.20
6211	A. Peterson	do	3.40
6212	J. Behards		4.40
6212	P. Fritz	do	4.00
5214	W. Alton		3.00
6215	W. Hocking	. do	4.00
6216	W. Hocking	do	4.80
6217	A. Weston	do	3.00
6218	C. Haselton	ldo	4.60
6219	E. Van Ousen	do	3.60
6220	H. Deeder	ldo	4.60
6221	O. Armfield	do	2.60
6222	P. Stiles		3.80
62 23	J. B. Williams		4.20
6224	Wm. Frichaw	Woodworth	3.90
6225	Devlin Bros (M.)	do	3.70
6226	Devlin Bros (N.)	do	3.80
6227	Rob. Pasch	do	4.00
6228	L. S. Fowles	do	3.80
6229	L. E. Remus	do	3.60
6230	E. S. Castle	do	8.80
6231	E. Edwards	do	4.40
6232	M. O. Myrick	do	4.20
6233	W. Weinke	do	3.80
6234	G. C. Shepard	,do	4.20 4.20
6235 6236	James Hunt	dodo	4.20
6287	Otto Schneckle	do	4.00
6288	Henry Burdick	do	4.90
6289	A. Parks	do	3.80
6240	Victor Lindquist	do	
6241	Rob. Hanson	do	4.10
OWIL	A. Upson		3.80

Lab. No.	Name.	P. O. Address.	Amount test.
6243	Emmet Schields	Woodnorth	4.50
6244	C. L. Marsk	do	4.50
6245	Frank Githen	do	4.10
6246	W. C. Crosby	do	4.20
6247	H. Adams	do	3.40
6248	Aug. Ott	do	3.90
6249	Martin Bagle	do	3.70
6250	Bert Vincent(N)	do	3.00
6251	Bert Vincent(M)	do	4.10
6252	A. J. Bennett(N)	do	4.10
6253	A. J. Bennett(M)	do	4.40
6254	Skim milk	do	0.50
6255	Skim milk	do	0.50
6293	John A. Jahn	Jefferson	3 70
6294	Kobt. Woolfer	do	3.60
6295	Aug. Kemster	do	3.80
6296	F. Dangs	do	4.40
6297	W. Armitage	do	4.00
6298 6299	Gott. Rinal	do	4,80
	Convert	do	4.30
6300	Geo. Ruprecht	do	4.00
6301	J. K. Jahne	do	3.50
6302	C. Schreipes.	do	4.20
6303 6 304	Fred Gross	do	4.40
6305	Chris Fisher	do	4.00
6306	Mike Keisling	do	4.00
6307	G. G. Scheibal	do	4.30
6308	Geo. Strim	do	4.00
6309	Chris SchawmGeo. Rochalock	do	8.50
6310	Wm. Nedler	do	3.20
6311	J. N. Rossler	do	4.50 4.00
6312	L. Johnson.	do	4.00
6313	John Rogler.	do	4.00
6314	Geo. Remal	do	3.40
6315	F. F. Draeger	do	4.00
6316	Aug. Grundman	do.	3.00
6317	Moses Hayden	do	4.20
6318	Fred Matthom	do	2.80
6319	John Ammon	do	3.40
6320	H. Kurtle	do	3.60
6321	W. Lentz	do	4.60
6322	Adan Wachel	do	4 30
6323	John Stienal	do	3.80
6324	Peter Butchied	do	4.10
6325	G. Vogel	do	3.70
6326	L. A. Reuth	do	4,00
6327	J. A. Schiefal	do	4,00
6328	Louis Gums	do	4.00
6329	John Kaisling	do	8.30
6330	Mat. Hass	do	8,60
6331	H. Neiss	do	8,20
6332	Geo. Hake	do	8.80
6333	Fred Kluch		3,90
6334	Geo. Guddenberg	do	

Lab. No.	Name.	P. O. Address.	Amount test.
6335	F A Uoffman	To Graman	9 60
6386	F A Hoffman	Jefferson	3.60 4.10
6337	J A Bower	do	2.40
6335	Aug. Ratz	do	3.00
6339	Adam Fromader	do	3.70
6340	John Reiss, Jr	do	4.00
6341	John Reiss, Sr	do	4.00
6342	Peter Spangter	do	3.80
6343	John Keuster		4.00
6344	John Mencial	do	4.60
6345	Henry Mencial	do	4.10
6346	Mike Jahm	do	3.70
6347	Vint Frodl	do.	3.00
6348	Utes Fuller	do	3.80
6349	Chas. Vroman	do	3.80
6350	J Elgas	do	2.60
6351	John Spangler	do.,,	3.40
6352	Geo Reinfang	do	3 20
6353	Wm Gritztrauch	do	4.00
6354	Joseph Quest	do	3.00
6355	John Gehler	do	4.00
6356	Frank Trucks	do	3.80
6357	John Scheifal	do	4.20
6358	B Scheikes	do	3.80
6359	Chas Scheikes	do	3.80
6360	F Schweiger	do,	3.40
6361	Adam Heimback	do	3.80
6862	C Mattes	do	3 90
6363	Aug Schumacher	do	3.50
6364	James Hillebrand	do	3.20
6365	Wm Blacksmidt	do	
6366	Henry Beinfang	do	3.80
6367	Mat Ganser	do	
6368	N J Ganser	do	
6369	R Schroeder	do	
6370	John Qeualer	do	
6371	Adam Seifert	do	3.60
6373	Fred Keison	do	
6373 6374	John Shannon	do	
	Mike Frank	do	
6375 6376	Joseph Winterling	do	
6377	Skim milk	do	
6378	Skim milk	Milwaukee	
6379	Frank Bublitz	do.	
6380	Charles Kastner.	do	
6381	J Kimerling	do	
6382	Paul Haufner	do	1 11
6383	H Bierboim	do	1 1111
6384	F Daega	do	'
6385	Fenrick Bros	do	, , , , , ,
6386	Joe Wittesholt	do	
6387	Gus Dorland	do	1
6388	J C Nehring	do	3.60
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Lab. No.	Name.	P. O. Address.	Amount test.
6390	V Habermeier	Milwaukee	3.10
6391	P Weines.	do	3.40
6392	Gessern & Mass.	do	3.60
6393	W Harland.	do	3.40
6394	C Hanson	do	4.20
6395	P Wolf	do	3.20
639 6	Fred Peters	do	3.20
6397	Adolph Wallock	do	2.70
6398	Joe Widerholt	do	4 20
6399	Feerick Bros	do	4.40
6400	Fred Warnes	do	5.00
6401	J Meyer	do	4,20
6402	J Fischer	do	3,60
6403	Waukesha Milk Co	do	3.50
6404	H Lesickle	do	5.00
6405	F Schneider	do	3.40
6406	Otto Greenwold	do	3,70
6407	C Kullman	do	2.60
6408	Henry Bentz	do	3.00
6409	Paul Hipner	do	8.50
6410	F Capelka	do	3.60
6411	H Kunkell	do	3.00
6412	George Kurtz	do	3.00
6413	J Becker	do	8.10
6414	A. Gruerner	do	3.40
6415	H J Brimmer	do	4.00
6416	John Studeman	do	3.00
6417	August Kepsel	do	3.00
6418	Geo Wolf	do	8.80
6419	David Butzer	do	3.20
6420	Joe Palmersham	do	3.39
6421	Henry Nolte	do	4.20
6422	Wm Volmer	do	4.60
6423	A Backman	do	3.20
6424 6425	Chas Koch	do	3.20
6426	T O'Hara	do	4.60
6427	T S Buver	do	5.00
6428	Albert Tucholk	do	4.80
6429	Albert Tucholk	do	2.80
6430	Christian Gunther	do	2.30
6431	Aug Nitz.	do	3.40
6432	Henry Ladde	do	3.00 2.90
6433	W F Stello	do	2.50
6434	J G Dickey.	do	3.90
6435	John O'Hara	do	4.30
6436	David Butzer.	do	3.00
6437	David Butzer.	do	2.70
6438	T P Leonard	do	3.50
6439	Fred Abbott	do	4.10
6440	W F Fraemming	do	3.80
6441	H B Frantz	do	3.60
6442	H B Frantz	do	3.60
6443	George A Shaughnessy	do	3.40
		do	

Lab. No.	Name.	P. O. Address.	Amount test.
0115	D.T.	Wilmonkee	4 2
6445 6446	R Langworthy	Milwaukeedo	3.2
6447	M C Mueller.		3.3
6448	H Mulvey	do	2.4
6449	P Baccolini	do	3.0
6450	O Rogers.	do	3.4
6451	J Degroat.	do	3.8
6452	J Degroat.	do	3.8
6453	C Barth	do	3.7
6454	Wm McCormick	do	4.5
6455	S H Stewart	do	3.6
6456	Geo H Ehr	do	3.8
6457	A Hangarlnes	do	5.0
6458	J Kuhnlen	do	3.4
6459	J Kuhnlen	do	4.0
6460	C L Hintz	do	3.8
6461	Wm Albrecht	do	8.2
6462	W H Ormond	do	3.6
6463	L V Gridley	do	3.8
6464	J Strauss.	do	3.9
6465	W Dobratz	do	3.6
6466	C Kreunig	do	3.4
6467	E M Davidson	do	3.8
6468	E M Davidson	do	3.9
6469	Albert Shulz	do	36
6470	C J Morse	Franksville	3 4
6471	J Frooks	Watertown Jct	3.8
6472	J Leroy	Hartland	3.6
6473	L Hattgen	Dulland	3.3
6474	C Netershierra	do	3.4
6475	C F Steel	do	3.2
6476	— Groves	do	4.0
6477	H Levin	do	3.7
6478	C Roether	Brookfield	4.6
6479	D L Fenney	Hartland	3.5
6480	C Ries	Brookfield	
6481	H Merrill	do	4.3
6482	J Leitzan	do	4.0
6483	H B Pearson	Pewaukee	3.6
6484	J M Spencer	Brookfield	3.6
6485	C Bailey	Oconomowoc	3.4
6486	C H Jackson	do	3.8
6487	L Johnson	do	3.6
6488	H Troloff	do	3.5
6489	C Classer	Duplain	3.4
649 0	W Harland	do	3.0
6491	John Brandt	Pewaukee	3.5
6492	Nick Manses	Brookfield	4.2
6493	S W Dunkel	Elm Grove	4.1
6494	C H Carpenter	do	3.1
6495	J Dieschaunt	do	3.8
6496	M Morrisey	Duplain	4.0
6497	A. White	Brookfield	4.0
6498	D Cusick	Duplainville) 2.0
6499	D A Griswold	dodo	4.8

Lab. No.	Name,	P. O. Address.	Amount test.
6500	J Hoffman	Brookfield	4.00
6501	H Zeigler	Columbus	3.80
6502	J E Humphrey	Ixonia	g.40
6508	E Davis	Ixonia	3.20
6504	F Brown	Germantown	2.80
6505 6506	V Straut	Germantown	8.20
6507	J Kissinger	Germantown	3.70 5.20
6508	J Beucher	Germantown	4.00
6509	E Garrett	Waukesha	4.80
6510	F Alm	Waukesha	4.00
6511	E Fuller	Waukesha	5.40
6512	Geo Blackwell	Waukesha	4.80
6513	John Sohms	Fredonia	3.40
6514	C Hackworth.	New Holstien	4.20
6515	F Schwaeke	Heinsville	3.80
6516 6517	H Haelder	Heinsville	3.60 3.80
6518	J Jones	Heinsville	0.81
6519	W Schoesson	Germantown	3.80
6520	M C Mason	Palmyra	5.00
6521	J Thayer	Palmyra	8.80
6522	H Miller	Eagle	
6528	H Miller	Eagle	
6524	H Miller	Eagle	
6525	H Miller	Eagle	
6526	D Rink	Hartford	
6527 6528	Albert Austin	Palmyra	
6529	J Rowe	Palmyra	
6530	F H Morris	Palmyra	1
6581	A C Freeluck	Milwaukee	
6532	J Livingston	Milwaukee	
6533	J Gottfried	Milwaukee	
6534	Jo Wiederhold	Milwaukee	
6535	Mary Vicks	Milwaukee	4.00
6536	JO Edwards	Columbus	
6537	H Maleitz.	Duplainville	
6538 6 539	D Cueic	Duplainville	
6540	C Reise	Brookfield	
6541	W Harland	Duplainville	
6542	A Griffin	Eagle	
6543	R Pipes	Eagle	1
6544	G W Harker	Eagle	
6545	W Pipes	Palmyra	. 4.20
6546	H O Évans	Geneva	
6547	J Munger	Palmyra	
6548	J H Morris	Geneva	
6549 8550	L Heintz	North Franklin	
6550 6551	J W West	North Franklin Geneva	
6552	J Hughs		
6553	Geo Henderson		`
6554	Sam S Hoge		

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Lab.	No	D O Ald	Amount
No.	Name.	P. O. Address.	test.
	1	J	
	• •		1
6555	J C Agathan	Eagle	4.00
6556	S Stickles	Genesee	3.20
6557	A A Agathan	Eagle	4.20
6558	Geo Moulster	Hartford	0.80
6559	W R Steed	Whitewater	8.60
6560	E E Hill	North Prairie	4.20
6561 6562	Aug Nitz	Milwaukee	2.10 3.00
6563	Aug Nitz	do	3.10
6564	Meier Bros	do	3.50
6555	H Kunkel H Kunkel	do	3.10
6566	John Steadman	do	4.00
6567	John Steadman	do	3.50
6568	H. Schoemaker	Geneva	4.60
6569	Frank E Swan	North Prairie	4.20
6570	H B Cummings.	do	4.40
6571	J C West	do	4.00
6572	A Hanavzer	Waukesha	3,40
6573	John Wade	North Prairie	3.80
6574	J Jones.	Iron Ridge	0.80
6656	D Cusie	Duplainville	2.00
6657	F Brown	Germantown	2.80
6658	J Jones	Iron Ridge	0.80
6664	L J Strong	Sommers	3.20
6665	SSStrong	do	
6666	A Grutztaff	do	
6667	F Gerke	do	
6668	C Nelson	do	4.90
6669	_Skim milk	do	0.20
6670	H Brown	do	3.60
6671	J Spense	do	3.60
6672	E Haight	do	
6673	E Haight	do	1 ^ ^^
6674	Skim milk	do	1
6675 6676	A Hughes	do	
6677	C Gentz	do	
6678	C Stetson	do	
6679	O Rasmussen	do	
6680	A Bohn	do	
6681	J Fitzgerald	do	1
6682	W A Spence	do	
6683	W Gibbon	do	5.00
6684	A Mahr	do	
6685	Peterson	do	
6686	J Shaffer	do	
6687	Henry Lash	Watertown	
6688	Julia Rall	do	
6689	Julius Rau	do	4.00
6690	C Ruelhausen	do	
6691	Fred Winkerwedder	do	
6692	A Goenz	do	
6693	H V Chapel		
6694	BG Martin	do	
6695	Geo Thompson	do	.l 3.80

Lab. No.	Name.	P. O. Address.	Amount test.
6696	J Gafke	Oregon	3.00
6697	J Gafke	do	3.80
6698	C Miller	do	3.20
6699	C Miller	do	4.00
6700	S Draher	do	3.20
6701	S Draher	do	3.60
6702 6703	O M Palmer	do	3 40 3.40
6704	A McWilliams	do	4.70
6405	R Peterson	do	3.70
6706	P Clawsen	do	3.89
6707	W Curtis	do	4.00
6708	S Fresler	do	3 60
€709	W Allison	do	3.20
6710	J Kusie	do	4 00
6/11	N Laury	do	3.00
6712	W Kenan	do	3.60
6713	A Alleson	do	
6714	— Sherman	do	4.00
6715	R Madison	do	
6716 6717	N Alling	dodo	
6718	G Bessingham	do	3.40
6719	D Hannon	do	
6720	C Hannon	do	
6721	L Morrison	do	
6722	L Hanson	do	
6722	H Matson	do	. 2.80
6724	E Ellis		
6725	A C Garton	do	
6726	George Pritchard	do	
6727	John Drahe		
6728 6729	John Gilbert		
6730	W Manron	do	1 2.2.1
6731	P Fahey	do	1 2 2 2
6732	A Rasmussen	do	
6733	H L Gould		
6734	D C Salsbury	do	. 4.20
6735	J Jensan		. 3.40
6736	C L Comstock	do	
6787	O Grout.		
6738	F Ayers		
6739	M Kepraney		
6740 6741	W Rasmussen		
6742	S ChandlerO Caiddle		
6773	E B Jackson	do	
6744	C Hanson		
6745	W Rice		
6746	A Rasmussen		3.80
6747	M McCarty	do	
6748	Jerry O'Neil		
6749	J Byrne	. do	
6750	D P Clark	. do	.1 3.60

Lab. No.	Name.	P. O. Address.	Amount test.
6751	H H Marvin	Oregon	3.20
7752	J_W Doolittle	do	3.70
6753	W massingham	do	3.40
6754	Charles Johnson	do	4.00
6755	E K Allendslo	do	4.00
6756	W Haulby	do	8.40
6757	M South.	do	3.80
5758	H H Bryan	do	3.80
6759 6760	C A Pratt	do	3.80
6761	S Waterman	do	3.20
6762	P Barry	do	3.40 3.80
6763	P P Sweeney	dodo	3.00
6764	C A Palmer	do	3. 6 0
6765	M Flanagan	do	3.30
6766	W W Howland	do	3.30
6767	J O'Neil	do	3.40
6768	J G ierce	do	3.40
6769	Separator skim	do	0.20
6770	Separator skim	do	0.20
5771	Mrs Edinger	Aurora	3.80
6772	D L Hanson.	do	3.80
0773	D L Hanson	do	3.4:)
6774	John Beck	do (N)	2.00
6775	John Beck	do(M)	
6776	Fred Jordon	do	3.70
6777	B F Clark	do(N)	3.30
6778	B F Clark	do(M)	3.80
6779	John Bares	do(N)	3.00
6780	John Bares	do(M)	
6781	George Fellows	do	3.40
6782	Aaron Thompson	do	6.60
6783	Aaron Thompson	do	3.60
6784	Aaron Thompson	do	4.00
6785	P Bielin	do(M)	
6786 6787	P Bielin	do(N)	3 20
7788	John Riordon	do	3.80
6789	Alf Fellows	do	3.60
6790	W Lidke	Hustisford	3.40
7791	W Lidke	do	3.40
6792	G H Wilson	do	3.80
6793	Ike Burgies	do	1 217.2
9794	Geo Thomas	do	8 70
6795	Sam Jones		3.70
6796	O Ryder		1
6797	O Ryder		3.60
6798	Aug Kawger]do	
6799	Aug Kawger	,do	
6800	E E Randall		
6801	F Gruelkey		1
6802	F Gruelkey		
6803	Ed Boeinx	do	
6804	Wm Hooker	do	. 4.00

Lab. No.	Name.	P. O. Address.	Amount test.
6806	S B Jones	Hustisford	8.40
6807	S M Randall	do	3.60
6808	Wm Longe	do	2.60
6809	Wm Longe	do	4.00
6810	Wm Jones	do	8.20
6811	Wm Jones	do	3.30
6812 6813	Ed Jones	do	8.20
6814	Ed Jones	do	8.60
6815	H Rust	do	8.00 8.80
6816	M Feifs	do	4.00
6817	Frank Sonnentag	do	8.40
6818	Aug Krahm	do	3.20
6819	John Becker	do	3.40
6820	Aug Zerbell	do	4.00
6821	Henry Metzgar	do	4.00
6822	John Christ	do	8.70
6823	Wm Schultz	do	8.70
6824	Nick Hueblein	do	4.20
6825	M Fitztaff	qo	3.50
6826	C Meyer	do	2.80
6827 6828	Herman Schultz	do	8.00
6829	Aug Thielke	do	3.50 2.60
6830	Mrs K Rollinger	do	3.80
6831	Mike Rollinger	do	8.80
6832	Chas Schott	do	2.20
6833	M Kreuger	do	
6834	Pat Fluery	do	3.40
6835	Wm Blank	do	3.60
6836	Mr. Barwalett	do	8.60
6837	Fred Baetzloff	do	8.50
6838	Fritz Quandt	do	3.60
6889	John Mueller		3.40
6840 6841	Herman Krahn	ldo	3.80 4.20
6842	Aug Zimmerman	Juneau	3.60
6843	Joe Poor	do	3.90
6844	Albert Zimmerman	do	4.20
6845	W Schultz	do	4.10
6846	Aug Fisch	do	4.60
6847	Dan Mahoney	do	4.20
6848	W Weerhumer	do	4.30
6849	Mr Honslett	do	3.80
6850	John Scheaven	do	3.80
6851	Anton Siunicht	. do	3.80
6852 6853	C Mecklinberg	do	3.40
6854	Aug Wegner	do	4.00 4.20
6855	Mr Krogemitz Hery Schraven	do	3.80
6856	Frank Bilke	do	4.20
6857	H Fisch	do	3.70
6858	L Summerfeldt	do	4.00
6859	M Foley	do	
6860	Aug Rupnow		3.30

Lab. No.	Name.	P. O. Address.	Amoun test.
6861	C Aeldash	Juneau	3.9
6862	F Preugan	do.	3.6
6863	Fred Nell	do	8.4
6864	Moulton	do	4.6
6865	F Baeske	do	4.0
6866	— Ford	do	4.4
6 867	F Watler	do	4.2
6 868	B Summerfeldt	do	4.0
6 869	Hen Heibner	do	4.0
6870	Aug Gaiah	do	3.8
6871	Aug Versonske	do	8.7
6872	Wm Smith	do	8.6
6873	H Versonske	do.	4.0
6874	Aug Olt	do	4.1
6875	J Mein	do	8.8
6876	W Versonski	do	4.7
6877	John Becks	Eureka	4.0
6878	Dairy No 1	do	8.6
6879	Dairy No 2	do	3.6
6880	Dairy No 3	do	8.0
6881	Dairy No 4	do	2.4
6882	Dairy No 5	do	
6888	Dairy No 6	do	8.0
6884	W Wepking	Highland	8.4
6885	G Sherer	do	3.6
6886	H Imhoff	do	8.6
6887	J Wepking	do	8.8
6 888	W Wall	do	3.5
6889	A Draver	do	3.1
6890 6891	W McGrath	do	3.6
6892	I Exstine	do	3.8
6893	R P Egan	do	3 8
6894	J Hennesy	do	3.9 3.0
6895	G Steinhardt	do	4.0
6896	W Gobler I Gottshall	dodo	3.8
6897	Thos Wall	do	4.0
6898	Thos Egan	do	3.
6899	Aug Flemming	do	8.4
6900	J Mattes.	do.	8.4
6901	Vat south end	do	8.6
6902	Vat middle end	do	3.
6903	Vat north end	do	3.
6904	Henry Culne	do	1
6905	Henry Culne	do	4.4
6960	Wm Lange, dairy	Hustisford	4 1
6961	Wm Lange, dairy	do	4.
6962	Wm Lange, dairy	do	8
6963	Wm Lange, dairy	do	8.0
6964	Wm Lange, dairy	do	3.8
6965	F Gruelkey	do	8.8
6966	F Gruelkey	do	3.
6967	Jule Grasebreck	Iron Ridge	3.
6968	Henry Degner	do	
6969	A Bauman	l 4-	4.5

Lab. No.	Name.	P. O. Address.	Amount test.
6970	Wm F Justman	Iron Ridge	4.00
6971	Aug Lenke	do	8.80
6672	F E Zouant	do	8.80
6973	Fred Justman	do	4.20
6974	Carl Copel	do	4.20
6975 6976	Otto Walpel	do	8.50
6977	Albert Bowman	do	4.10 8.40
6978	E Friske.	do	3.60
6979	O L Stockwell	do	3.80
6980	W Hibbard	do	2.80
6981	E Krenz.	do	4.00
6982	C Fischer	do	3.20
6983	F Farmer	do	3.50
6984	Mrs. Sinks	do	3.80
6985	M Cramer	do	
6986	Wm Schultz	do	2.90
6987	O N Hilyer	do	
6988	F Wendorf	do	3.60
6986 6890	G V Hargraves	do	
6891	F WaegeL Dow	dodo	
6892	J Schroeder		
6893	H Laabs.		1 1111
6894	Wm Arndt	do	1 2122
6895	E Dougherty	do	
6896	Wm Daege		
6897	J E Moughmer	do	3.60
6898	James McEvoy	do	
6899	S J Dow		
7000	P Duane		
7001 7002	W W Wilder		
7002	L Johnson		
7004	Pat Boyle		
7005	V Abbott.		
7006	J H Harland	do	
7007	G B Platner		
7008	H Lakne		
7009	Elmer Lakne		. 3.80
7010	J D Abbott		
7011	J Ryan		
7012	W Hoard	do	. 3.40
7018	L M Spring		3.70
7014 7015	H R Rice		
7016	P McCann		
7017	J Kerrigan		
7018	W E Todd		
7019	O Urich		- 1
7020	F Krause		* 1
7021	H J Mashier	. do	
7022	V Goldsmith		. 3.00
7028	C Wolkow	. do	
7024	Aug Lange	. do	.\ 3.00

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Lab. No.	Name.	P. O. Address.	Amount test.
7025	A O'Leary	Wilton	8,30
7026	C Strozinsky	do	4.20
7027	J McGarvey	do	3.80
7028	N Boedis	do	3.60
7029	J O'Leary	do	3.20
7030	P Trainor	do	8.70
7031	E Breslin	do	4.20
7032	F Hayward	do	8.40
708 3 7084	C Barnhardt	do	4.20 8.70
7035	E E Titus.	do	8.60
7036	Skim milk	do	9.00
7037	W Pinges.	Fox Lake	8.20
7038	W Lutzen	do	3.00
7039	Frank Smith	do	4.00
7040	Frank Smith	do	3.30
7041	Chas Hass	do	4.20
7042	C Schultz	do	4.00
7048	J Dougherty	do	3.70
7044	W D Borst	do	8.80
7045	C Hepnes	do	8.40
7046 7047	C Porter	do	3.80
7047	M Michael	do	4.80 3.40
7049	A FrankGus Schultz	do	3.40 3.90
7050	Aug Buss.	do	4.10
7051	F Buss	do	8.50
7052	W Wanerrine	do	4.00
7053	H Keal.	do	4.40
7054	R Kalell	do	3.60
7055	Rob Ray	do	3.70
7056	H J Wood	do	4.00
7057	L D Lewis	Ixonia	8.60
7058	O Roberts	do	3.80
7059 7060	Aug Finel	do	3.50 3.80
7061	E F Evans	do	3.80
7062	F Strach	do	8.60
7068	H E Humphrey	do	8.50
7064	F Buss	do	3.60
7065	C Olson	do	3.90
7066	E Davis	do	8.00
7066	E E Humphrey	do	3.60
7068	C Bratz	do	
7069	H Eppler	do	8.60
7070	Separator	do	0.40
7071 7072	Separator	do	0.40 3.80
7072	D Bowman	do	4.46
7074	E T Echman	do	
7075	M Call	do	
7076	T W Jones	do	3.80
7077	Evan Brese		8.60
7078	P Lewis		4,00
7079	L Lewis		3.6

Lab. No.	Name.	P. O. Address.	Amount test.
7080	D Lewis	Ixonia	8.40
7081	C Dagner	do	3.50
7082	J Kuester	do	3.60
7083	J M Jones	do	3.50
7084	Mrs Rutledge	do	3.90
7085 7086	Wm Humphrey	do	4.20
7087	S Jones	do	3.80 3.30
7088	C Drevs.	do	4.20
7089	Separator No. 1	do	.40
7090	B Collin	do	4.00
7091	Separator No 2	do	.40
7092	E Humphrey	do	4.00
7093	H Pugh	do	3.60
7094	H Humphrey	do	8.80
7095	E G Humphrey	do	4.20
7096 7097	M Stounton	do	4.00
7097	O Lee	do	4.20 3.90
7099	L Leaman Buttermilk	do	1.40
7100	D E Owens	do	3.80
7101	Philipp Bros.	Delavan	3.40
7102	C Martin.	do	8.50
7103	T Flonder	do	4.10
7104	H Fisk.	do	3.60
7105	F Pounder	do	3.70
7106	G Pounder	do	3.20
7107	J Eye	do	3.10
7108 7109	J Jessup	do	3.60 3.70
7110	M Kane	do	4.10
7111	G Cramer (N)	do	3.60
7112	G Cramer (M)	do	4.20
7113	H Haily	do	4.00
7114	H J Davis	do	3.80
7115	J S Sennet (M)		8.90
7116	J S Sennet (N)	do	3.30
7117	W D Sturtevant	do	4.50
7118	F Sturtevant	do	3.80
7119 7120	W B Henry (N)	do	3.90 4.20
7121	W B Henry (M) C Prunams	do	3.40
7122	R Shunmans	do	3.40
7123	A D Meyer	do	3.80
7124	O Howvers (M)	do	4.10
7125	O Howvers (N)	do	4.10
7126	R Greemwell	do	4.20
7127	H Rockwell	do	3.60
7128	C Merenest	do	4.20
7129	Thorp & Toping	do	3.40
7130 7131	J Parks	do	3.40 3.80
7131	C P Ives	do	4.00
7188	Deaf & Dumb Asylum	do	4.10
	G Dixon.		8.80

Lab. No.	Name.	P. O. Address.	Amount test.
7135	H Hulce	Delavan	3.8
7136	J Cummings	do	3.6
7137	G Brown	do	3.6
7138	M Moran	do	4.0
7139	L Marcey	do	
7140	R Ines.	do	3.6
7141	R Ines	do	8.2
7142	S Pound	do	3.8
7143	S Pound	do	4.4
7144	Amos Ives.	do	3.0
1145	A Rinke	do	3.8
7146	C Heiss.	do	3.80
7147	F Smith	do	4.2
7148	M Clary	do	3.6
7149	G Barber	do	5.7
7150	Thomas Jones.	do	3.4
7151	F Papke.	do	4.6
7152	McSorley	do	3.8
7153	A Williamson	do	3.9
7154	A Pinnow.	do	3.8
7155	J Pipser	do	4.0
7156	S Sherman.	do	3.8
7157	A O Hull	do	3.4
7158	James Cox.	Kansasville	3.6
7159	Frank Cox.	do	3.6
7160	James Allen	do	4.0
7161	Chas Hoffmann	do	3.5
7162	A & E Christian	do	3.7
7163	Fred Pratt	do	3.5
7164	D A Collar	do	3.6
7135	H Schroeder	do	3.6
7166	John Harris	do	3.6
7167	Mat Harvey	do	3.6
7168	Joe Christain	do	3.2
7169	George Englehardt	do	3.5
7170	C Reinhold	do	3.8
7171	James Peterson	do	3.5
7172	J W Payne	do	3.2
7173	Frank Ward	do	3.4
7174	Fred Jacquith	do	3.2
7175	H Schwartz	do	3.4
7176	John Payne	do	8.4
7177	James Newgard	∴do	8.0
7178	W Osinga	do	3.4
7179	W Bungen	do	3.3
7180	Ellen Kelley	do	3.0
7181	Pat McCormick	do	3.2
7182	Butter milk	do	. 4
7188	Butter milk	do	.4
7184	Skim milk	do	.1
7185	Skim milk	uo	.1
7186	John Koofman	HilbertN.	8.6
7187	John Koofman	do	
7188	Fred Hearnke	do	4.2
7189	Runat Hearnke	do	8.1

Lab. No.	Name.	P. O. Address.	Amount test.
7190	Runat Hearnke	HilbertM	4.00
7191	Albert Below	do	3.50
7192	Aug Stacke	do N	3,80
7193	Aug Stacke	do M	3.40
7194	Julius Baddle	do N	3.40
7195	Julius Baddle	do M	4.20
7196	Fred Leneke	do N	3.40
7197	Fred Leneke	do M	3 80
7198	Jake Casper	do N	3.20
7199	Jake Casper	do M	3.80
7200	J A Rearnke	do N	4.20
7201	J A Rearnke	do M	4.20
7202	John Lohrohe	do	4.20
7203	John Lohrohe	do	3.60
7204	James Campbell	do	3.20
7205	Henry Larsche]do	4.00
7206	Henry Larsche		4.20
7207	James Campbell	do M	3.80
7208 7209	Dennis Martell	do N	3.40
	Dennis Martell	do M	3.80
7210 7211	John Laneen	do	3.40
7212	Wm Casper		3.40
7213	Wm Casper Otto Larsche	do	4.2
7214	Otto Larsche.	do	3.6
7215	Christ Larsche	do	4.20
7216	J C Alpin	do	3.0
7217	J C Alpin	do	3.4
7218	J C Alpin	doMix	2.50
7219	J C Alpin	do	3.4
7220	F R Ganzel	Black Creek	3.60
7221	Joe Blake	do	3.4
7222	E Baxter	do	4.0
7223	C Hunwald	do	4.0
7224	C Hunwald	do	3.0
7225	F Ossman	do	3.80
7226	O Royal	do	3.80
7227	H Urban	do	3.6
7228	Joe Fisher	do	3.70
7229	F Klaumer	do	3.60
7230	Herman Pasch	do	3.2
7231	Frank Morey	do	3.40
7232	F Noack	do	3.20
7233	Gus Maschensky	do	3,8
7234 7235	John Thiel	do	4.00 3.80
7236	Chas Herman	do	3.20
7237	Chas Herman Ed Herman	do	3.40
7238	Wm Klockzien	do	3.4
7239	A Barth	do	3.80
7240	F Draphel	do	3.6
7241	F Letzkew	dodo	4.0
7242	F Tranar	do	4.4
7243	John Kuhn.		3,6
7244	J R Battey		

Lab. No.	Name.	P. O. Address.	Amount test.
7245	Ulbert Letzkow	Black Creek	8.60
7247	Chris Kuhn	do	8.40
7247	F Meilke	do	3.40
7248	Herman Meilke	do	3.60
7249	P Graff	do	3.60
7250	H Hamick	do	3.40
7251	I Wagner	do	4.80
7252	A Rosenberg	do	3.80
7253	F Schnegle	do	
7254	C H Marey	do	4.40 3.20
7255 7256	H Maschensky Ed Comstock	do,	3.20
7257	Wilber Jorden	Paoli	3.20
7258	Thomas McManus	do	3.20
7259	Wm Chatterton	do	8.00
7260	G Glennin	do	8.69
7261	G Fleuary	do	3.60
7262	Albert Durst	do	3.20
7263	Charles Tinney	do	3.00
7264	Fred Vogley	do	3.10
7265	A Jennings	do.,	4.00
7266	Jacob Wilde	do	3.80
7267	Henry Kates	do	3.40
7268	Butter Milk	Emerald Grove	.60
7269	A D Barlass	do	3.40
7270 7271	Adam Wiltman	do	4.10 2.80
7272	O Hanson	do	3.80
7278	J Boral.	do	8.60
7274	T Lorentzen	do	4.00
7275	W McGregor	do.:	4.20
7276	J Bayonton	do	3.70
7277	C Bayonton	do	3.60
7278	F Wetmore	do	3.60
7279	C Dean	do	4.20
7280	J & Kuss	do	3.80
7281	L Inman	do	3.60
7282	John Grams	do	3.90 3.80
7283 7284	P McNee	do	3.90
7284 7285	C Kemp.	do,	3.50
728 6	D McArthurs.	do	3.80
7287	Separator	do	.40
7288	J Scott	do	4.00
7289	C Gardner	do	3.70
7290	Sam Cuckoo	do	4.50
7291	C Cholotte	do	3.70
7292	Krebbs	do,	4.80
7293	J Winegar	do	4.10
7294	Mrs Waugh	do	3.80
7295	F B Scott	do	4.40
7296 7297	Fred Helmes	do	3.40 4.00
7297	J Thomas	do	3.90
	1 et 1 (dille)		

				
Lab. No.	Name.	P. O. Address.	Amount test.	
			1	
7300	J Duthie	Emerald Grove	3.80	
7301	W Duthrie	do	3.40	
7802	Fred Schiller	do	3.60	
7303	O Steinhaus	do	4.00	
7304	D M Barlass	do	3.80	
7305	M Smith	do	3.60	
7306 7307	J Smith	do	4.00	
7308	C D Kennan	do	4.00	
7809	W Bunket	do	3,80 4.00	
7310	Louis Siggelkow	Hika	3.60	
7811	Louis Bohr	do	8.20	
7812	John Gavendusky	do	3.60	
7813	W W Jalger	· do	8.40	
7314	Aug Zeitler	do	3.70	
7315	John Mill.	do	8,20	
7316	John Wagner	do	3.60	
7317	H Grupe.	do	3.60	
7318	Mrs Noersch.	do	3.70	
7319	Peter Zarzarsky	do	3.60	
7320	John Bank	do	3.80	
7321	John Schoples	do	3.20	
7322	Wm Kona	do	3.40	
7323	Fred Lcker	do	3.70	
7824	C Lucker.	do	3.40	
7325	Manzel Kassa.	do	3 40	
7326	H Junk.	do	4.00	
7327	F.R Kettle.	do	3.20	
7328	C Ortmier	do	4.20	
7329	H Stock	do	3.20	
7830	H Janning	do	3.40	
73 31	C Keilsmier	do	3.60	
7332	John Schuelte	do	3.60	
7333	C Dehne	do	8.70	
7834	H Dehne	do	8.20	
7335	W Baumanger	do	3.80	
7336	C Johnson	do	3.40	
7337	Mich Kesher	do	8 00	
7338	Aug Malenbauer	do,	3.80	
7339	Mrs Rehes	}do,	4.20	
7340	Henry Rehn	do	8.60	
7341	A Bulkasky	do	3.60	
7342	A Pasternaski	do	3.50	
7843	H Siggelkow	do	3.70	
7344	Henry Kintz	do	8.20	
7845	G Hahr	do	8.60	
7346	Aug Bahr	do	3.60	
7347	H Gapengater	do	4.00	
7348 7349	A. Shulte	do	3.50 3.60	
7349 7350	Nick Salon	do	3.80	
7850 7851	A Pannicki	do	3.60	
7352	H Beavermeyer F C Stack	do	3.60 8.60	
7353	C Stack	do	3.80	
7854			3.80	
1002	LZywert	ι αυ	l 0.00	

Lab. No.	Name.	P. O. Address.	Amount test.
7355	B Herman	Hika	8.70
7356	F. Merotick	do	3.40
7357	T. Sitkivitz	do	3.40
7358	E Grotegut	do	3.60
7359	Fred Jacobi	do	8.00
7360	H Schulte	do	6.60
7361	Aug Keuth	Reedsville	4.10
7362	Aug Keuth	do	4.20
7363	Aug Jerede	do	4.00
7364	Aug Jerede	do	4.40
7365	C Kabot	do	4.00
7366	G O Kreiger	do	4.00
7367 7368	F Wumradsbick	do	4.00 4.00
7369	F Wumrødsbick	do	3.30
7370	Mich Connell	do	4.00
7371	Chas Wilelnow	do	3.50
7372	Dan Brickholz	doN	3.50
5373	Dan Brickholz	doM	4.20
7374	Fred Kurth	do	4.00
7375	M Brickholz	do	3.60
7376	M Brickholz		2.80
7377	F C Birgedof		4.40
7378	F C Birgedof	doN	8.00
7379	M Connors	doN	2.80
7380	M Connors	do	8.40
7381	John Guilin	do	4.20
7392	John Guilin	do	3.60
7383	Aug Goldbeck	doN	3.40
7384	Aug Goldbeck	do	4.80
7385	Edmond Regan	do	4.60
7386	Edmond Regan	do	3.00
7387	Daniel Janty	do	
7388	Daniel Janty	do	3.90
7389	Anton Kabot	do	4.50 3 30
7390 7391	Anton Kabot	do	
7391	Albert Pinike Albert Pinike	do	
7393	A Zimmerman	do	
7394	A Zimmerman	do	
7395	Michael Marks	Niles	1 2732
7396	Paul Wegner	.do	1 2
7397	John Zurtz	do	3.70
7398	Wm Schmeider	do	
7399	Wm Schmeider	do	4.30
7400	Anna'Strekert	do	4.00
7401	Carl Gather		4.10
7402	N Patter		. 3.40
7403	W Baetchert		8.40
7404	P Erickson	do	
7405	John Donovan		
7406	John Wegner		. 8.70
7407	Ole Halverson		
7408	H A Olm		
7409	G Bissow	. do	.

Lab. No.	Name.	P. O. Address.	Amount test.
7410	Fred Woodcock	Niles	3.20
7411	O E Olson	do	2.60
7412	G Blanday	do	8.60
7413	John Dealeim	do	4.20
7414	O Erson	do	3.00
7415	O B Halverson	}do	
74 16	M. Johnson	do	8.50
7417	Henry Johnson	do	8.40
7418	W Deaheim	do	3.40
7419	M_Taylor	do	8.20
7420	Vat No. 1	do	
7421	Vat No. 2	do	8.30
7422	Aug Theelke	Huilsburg	4.10
7423	Henry Frank	do	3.80
7424	Aug Zirbel	do	8.90
7425	Wm Schulz		4.40
7426	Peter Fleury		4.40
7427	Aug Krapin		
7428	John Beckes.	do	
7429	M Fitzlaff		
7430	C Meyer	do	
7431	F Lonnatag	do	8.40
7432	N Hamblein		
7433	W Schultz	aao	
7434	H Metzger		
7435	John Christ		
7486	A Schraff		4.20
7437	K Rollinger		
7438	M Rollinger	do	3.80
7439	Butter Milk		
7440	James Richardson		
7441	John Hoye		
7442	A Hand	do	
7443	K Mickelson	do	
7444	LE Hildreth		
7445	LE Hildreth		
7446	W H Leary		
7447	Sam Miles		4.20
7448	J H Hant		4.20
7449 7450	W Carrison		3.20 3.80
7450	Chas Hildreth		
7452			
7458	B Johnson		
7454 7455	Madden & McComb(M)		
7456	W J Basingham	do	
7457	W R Galley	do	
7458	N C Lee	dodo	
7459	E Foster		1
7460	A M Hurd		
7461	Baringham		
7462	C Crowell	1	
7463	John Rinde		
7464	A Coopende		
1404	A Coopenae		0.40

Lab. No.	Name.	P. O. Address.	Amount test.
7465	Sam Soule	Edgerton	4.0
7466	M D Usher	do	5.6
7467	A Omsrud	do	4.0
7468	L Quam	do	2.8
7469 7470	M UsherKnud Oleson.	do	4.0 3.5
7471	Frank Soule	do	3.4
7872	F Westerfield.	do	3.4
7473	O J Oleson.	do	3.4
7474	Separator	do	0.1
7475	— Gilbertson	do	4.2
7476	A Connors	do	3.8
7477	L Down	do	3.8
7478	L Arddle	do	3.6
7479 7480	E O Flugen	do	3.6
7481	A D Johnson	do.	3.4
7482	L Alma.	do	4.6
7483	H Farnsworth	do	4.0
7484	Buttermilk	Emerald Grove	0.5
7485	A M Whitman	do	8.0
7486	A P Barlass	do	3.3
7487	J Boval	do	3.0
7488 7489	P Larentzen	do	3.6
7490	F Wetmore	do	3.9
7491	M McGregor	do	8.7
7492	C Baynton	do	3.6
7493	J Boynton	do	3.7
7494	A Westly	do	3.2
7495	- Bier	do	4.0
7496	C C Pean	do	4.0
7497	O Hansen	do	4.1
7498 7499	H Lloyd	do	3.4
7500	C Youmans	do	4.2
7501	M Van Allen	do	3.8
7502	W Anklan	do	3.6
7503	E Van Allen	do	3.7
7504	J Johnson	do	
7505	S Joines	do	4.6
7506	John Jones	do	8.8
7507	J Simpson	do	3.9
7508 7509	Wm Kirkpatrick	do	3.8
7510	Denis Jones	do	
7411	J Guilin.	dodo	1 7.75
7412	C Wright	do	
7413	Wm Duthie, Sr	do	3.5
7414	J Duthie	do	8.6
7515	Wm Duthie, Jr		
7416	Sam Lock		8.7
7417	John McArthur	do	8.4 5.2
7418 7419	Ed DykemanFred Schillers	do	4.0

Lab. No.	Name,	P. O. Address.	Amount test.
7520	Otto Stienkraus	Emerald Grove	
7521	D M Barlass	do	3.80
7522	M Smith	do	3.60
7523	ODY Kenun	do	3.70
7524	Ed Smith	do	3.20
7525	Wm Bunker	do	3.40
7526 7527	John Grams	do	3.60 3.50
7528	P McNee	do	3.80
7529	D McArthur	do	8.20
7530	Chas Kamp	do	8.40
7531	John Skuce.	do	8.40
7532	Lars Larson	do	3.00
7533	L Inman	do	3.00
7584	James Scott	dc	3.60
7535	Sam Cuchaw	do	
7536	G F Chilcate	do	3.60
7537	Chas Krebs	do	
7538	Mrs Waugh	do	
7539	James Winegan	do	
7540 7541	Fred Helmer	do	
7542	F R Scott	l do	
7548	Hans Hanson	do	1
7544	E Ransom	do	4.00
7545 .	James Pluntz	do	
7546	Tom Barlass	do	
7547	Dave Barlass	do	
7548	Wm Conway	do	4.00
7549	I Crandell	do	
7550	Albert Leak	do	
7551 7552	Ira Crosby	do	
7553	Mr Wauple E Kemp	do	
7554	D Clark	do	
7555	Skim milk	do	
7556	Skim milk	do	
7557	John Deish	Monticello	
7558	Emet Scott	do	3.20
7559	Albert Fulton	do	
7560	A P. Jorden	do	
7561	Anton Lewis	do	
7562	John Caril	do	
7563 7564	H Eagan	do	
7565	O M Case Frank Edwards	do	
7566	Wm Merkt	Hustisford	
7567	Peter Sackers	do	
7568	Chas Hogan		
7569	Jake King	do	
7570	George Holstein		
7571	Mrs Hein		
7572 757 3	Julius Martin	,do	
7574	Chas Guls	do	3.60 3.90

Lab. No.	Name.	P. O. Address.	Amount test.
7575	W Pieper	Hustisford	8.40
7576	W Munsky	do	3.60
7577	James Wiggins	do	8.60
7578	F Roethte	do	3.00
7579	C Peiper	do	3.80
7580	Vat	do	8.40
7581	Vat	do	3.60
7582	Tom Goodsell	do	3.70
7583	Pat Maher	do	3.80
7584	Frank Calahan	do	8.80
7585	Chris Keys	do	3. 6 0 3.70
7586 7587	John Lovel	do	3.70 3.20
7588	Frank Smith	do	3.60
7589	Ed Dehne.	do	3.30
7590	Ed Nehls	do	3.30
7591	H Nehls.	do	4.00
7592	H Slaffen	do	3.80
7593	Tom Goodsell	do	8.60
7594	John Key	do	8.30
7595	John Demrath	Appleton N	3.70
7596	John Demrath.	do	4.40
7597	Matt Thickert	do	3.20
7598	Matt Thickert	do M	8.40
7599	E Schuntz	do M	3.70
7600	E Schuntz	do	3.00
7601	Mayer Bros	do	3.60
7602	Mayer Bros	do M	3.80
7603	M Vanderwater	do M	4.40
7604	M Vanderwater	do N	3.00
7605	Fred Rolloff	do N	8 50
7606	Fred Rolloff	do M	3.80
7607	Charles Kesting	do	4 40
7608	Charles Sellgen	do	4.00
7609	John Aberwood	do	4.10
7610	John Aberwood		4.50
7611	M Kerby		3.80
7612	M Kerby	do	3.20
7613	Frank Kern	do	
7614	Frank Kern	do	8 40
7615	Charles Meyer	do M	
7616	Charles Meyer	do	3.20 4 00
7617 7618	J Groll	do	
7619	C Ballard	1	
7620	C Ballard	do M do N	3.80
7621	Joseph Joosten	do	1
7622	J Uhlenbrank	do	1 7.72
7623	J Uhlenbrank	do	
7624	Anton Calmer	dodo	3.60
7625	Henry Bessing.	do	4 40
7626	R Smalfus	Cleveland	8.90
7627	J Dorsch.	do	1 400
7628	C Kalk.	do	3.90
		do	8.40

Lab. No.	Name.	P. O. Address.	Amount test.
7630	W Kaumsey	Cleveland	3.50
7631	J Kahm	do	4.00
7632	A Schwartz	do	3,40
7633	F Hein	do	3.80
7634	J Munger	do	3.40
7635 7636	J Kraber	do	8.40
7637	J Bull	do	4.00
7638	M Kresse	do	3.60
7639	A Bogenschitz	do	4.00
7640	G Wagner	do	4.00 4.30
7641	J Jiesmer.	do	4.20
7642	E Schmeidick	do	4.10
7643	U Nack	do	4.10
7644	J Schelter	do	8.60
7645	E Kahn.	do	4.00
7646	Mrs. Neuming	do	3.60
7647	F Sachsee	do	3.60
7648 7649	W Boetches	do	8.80
7650	A Freese	do	3.90
7651	M Jost	do	3.60
7652	Peter Junk	do	4.20
7653	J Sahn	do do	4.40 4.20
7654	G Sendard	do	3.70
7655	N Weider	do	3.40
7656	M Sham	do	3.80
7657	H Oberjager	do	3.30
7658	C Martins	do	4.40
7659	F Jost	do	3.80
7660	F Franz	do	8.40
7661 7662	A Provensky	do	3.50
7668	F Junk	do	3.50
7664	T Hunsch	do	3.70
7665	J Liekelcow	do	3.60 3.20
7666	G Bannon	do	4.00
7667	John Schulte	do	3.60
7668	C Kalb.	do	4.00
7669	J D Hein	do	3.80
7670	J A Hetzel	do	3.60
7671	A Schneider	do	4.00
7672	C Baineman	do	4.00
7672 7 6 74	J Duessin	do	4.60
7674 7675	C Pohland	do	3.60
7676	John Hetzel F Schneider	do	3.80
7677	E Jaening		3.70
7678	H Born	do	3.80 4.00
7679	J Simmerding	do	4.00
7680	H Scheid	do	4.50
7681	S Kraus	do	3.50
7682	H Bogenshitz	do	8.60
7683	J Beinenmam	do	4.00
7684	Peter Heintz	do	8.00

Iab. No.	Name.	P. O. Address.	Amount test.
7685	C Torpel	Cleveland	4.60
7686	F Arens	do	8.80
7687	H Jaeger	do	3.40
7688	D Bogenshitz	do	4.00
7689	Belitz Bros	do	4.20
7690	Peter Wagner	do	4 00
7691	South Separator	do	.40
7692	North Separator	do	.40
7693	William Dekaske	Hilbert	8.80
7694	Pat Dabr	do	4.20
7695	John Graner	do	8.60
7696	H Dekasska	do	4.10
7697	M Schisker, Sr	do	3.80
7698	M Schisker, Jr	do	8.80
7699	F Anheies	do	4 10
7700	Aug Branter	do	4.30
7701	Louis Yeager	do	4.30
7702	Mrs F Yeager	do	3.80
7703	L Baddatz	do	8.40
7704 7705	C Haberland	do	8.80
	H Schmilting	do	8 80
7706 7707	C Pagel	do	8.70
7708	Win Haerinke	do	3.80 3.80
7709	Geo Radel	do	4.00
7710	H Raffermus	do	4.40
7711	B Hoffmann.	do	4.00
7712	C Seille.	do	4.00
7713	Aug Puchfall	do	2.80
7714	Tom Hanser	do	4.20
7715	Joe Kochler	do	3.60
7716	John Ott	do	4.20
7717	Wm Koehler	do	8.80
7718	Frank Kaffermus	do	3.60
7719	John Plantz	do	8.80
7720	Pete McDonnald	do	8.10
7721	Anton Ketteraed	do	2.60
7722	R Dascomb	do	4.00
7723	F Heimnel	do	4.40
7724	Peter Mathes	do	
7725	G Koenig	Barton	3.80
7726	P Hurtz	do	3.60
7727	H Richter	do	3.60
7728 7729	J Steinnetz	do	3.80 3.40
7730	A Schmitz.	do	3.60
7731	J R Taylor	do	3.80
7732	W Leinberger	do	8.00
7783	P Leinberger	do	4.00
7734	H Otten	do	4.40
7735	H Sickert	do	3,30
7736	E Fricken	do	3.70
7737	F Moll.	do	3,20
7738	J Vogelsang	do	3.80
7739	E Peters	do	8.60

Lab. No.	Name.	P. O. Address.	Amour t test.
7740	M Berres	Barton	3,80
7741	H Krouse	do	3.00
7742	Skim milk	do	.30
7743	J Hackhouse	do	2.60
7744	A Zimmerman	do	3 40
7745	P Jansen	go	3 60
7746	G McCarty	do	3.40
7747	F Krouse	do	4.30
7748	B Pischer	do	3 50 3.60
7749 7750	H Krouse	do	
7751	P May	do	3.60
7752	T Van Beck	do	
7753	I Marlenas	do	3.80
7754	A Paster	do	
7755	J Kuveck	do	3.40
7756	Kuveck Bros	do	
7757	Chas Techteman	do	
7758	D Reiland	do	3.80
7759	J Reiland	do	
7760	G Koening	do	4.20
7761	W Blaser	do	3,20 4,40
7763 7763	F Vogt	do	
7764	F Gansel	do	20102
7765	L Harlenes	do	
7766	A Conge	do	127, 5, 5
7767	E Courtney		
7768	W Raidus		
7769	T Wey	do	
7770	J Beirsack		
7771	J Peters	do	
7773	H Brandt	do	
7778	F Marteil	do	
7774 7775	G Hebelsack		
7776	H Strapp	do	2 12
7777	N Schleager	do	
7778	H Graab.	do	7.50
7779	J Jansen		2.00
7780	M Suglar		
7781	M Suglar] do	
7782	C Kaun	do	
7783	J Kulzenberg	do	
7784	J Williams	do	
7785	C Benick	do	2 3 4
7786 7787	James Kaupp	do	27.24
7788	J Bolen A Miller	do	
7789	A Ostrander		2022
7790	S Albright		3.60
7791	Ed Albright		
7792	A Wickman		
7793	F Miller	do	
7794	N Miller	ldo	4.00

Lab. No.	Name.	P. O. Address.	Amount test.
7795	W Dunk	Barton	8.00
7796	Mrs Zipp	do	3.20
7797	J Fribeteshense.	do	3.40
7798	W Harbat	do	3.60
7799	H Wendelbow	do	3.80
7800	G Walters	. do	3.60
7801	P Weinert	do	3.60
7802	C Beck	do	3.20
7803	F Eder	do	3.60
7804	S Long	do	3.80
7805	J Bauer	do	3.60
7806	C Goetler	do	3.20
7807	H Schoebt	do	3.60
7808	W Schroeder	do	3.40
7809	W Schoebt	do	3.20
7810	C Schroeder	do	
7811	W Schoebt	do	
7812	J Hehler	do	3.40
7813	Skim Milk	do	.80
7814	Butter Milk	do	
7815	A Roemert	Hilbert	4.00
7816	J Krueger	do	
7817	Tom Carroll	do	3.40
7818	J Voss	do	4.00
7819	C Goetsch	do	3.90
7820	A Reodel	do	2.80
7821	George Behnke	do	3.70
7822 7823	George Voss	do	3.50
	Fred Gundlach	do	
7824 7825	Fred Bissom	do	
7826	Wm Entles	do	1
7027	J Breuning	do	
7828	Joe Warnkee	do	
7829	I Dreier.	do	
7830	Mrs Readel	do	
7831	M Whelan	do	
7832	Mrs E Miller	do	1 712
7833	W Wagner	Cleveland	
7834	F Maersch	do	3.70
7835	L Oswold.	do	1
7836	Aie Wagner	do	
7837	A Fergner	do	
7838	A Feld		
7839	M Gudenberger	do	
7840	Wm Klemn	do	1 - 1
7841	P Gunn	do	
7812	J Peiper		
7843	W Forester	do	
7844	Wm Schnit.		
7845	F Schanung.	do	
7846	A Wunsch	do	
7847	O Wipperman		
7848	Chas Peiper	do	
7849	Mrs Gasse	1do	4.1

Lab. No.	Name.	P. O. Address.	Amount test.
7850	P Woersch	Cleveland	4.00
7851	E Schaf	do	4.20
7853	J ниb	do	8.60
7853	L Fischer	do	3.80
7854	P Conrad	do	8.60
7855	Jack Lixel	do	8.40
7856	G Lixel, Jr	do	8.70
7857	H Schutte	do	8.80
7858	F Bochl	do	4.00
7859	L Landenschlager	do	4.00
7860	L Klueger	do	8.60
7861	Gus Sommers	do	8.90
7862	Gott Sommers	do	8.40
7863	G Lixel, Sr	do	8.80
7864 7865	E Tepel	do	3.80
	L Dippold	do	3.80
786 6 7867	F Kintz	do	3.90
7868	H Salm	do	4 10
7869	H Conrad W Luellobb	do	3.70
7870		do	8.60
7871	H KrauseL Franz	do	3.60 4.20
7872	F Festerling	do	3.10
7873	C Ahrns.	do	
7874	O Wunsch	do	3,80 4,10
7875	H Wipperman	do	8.20
7876	Miss Wagner	do	4.00
7877	M Wagner	do	3.90
7878	North separator	do	0.30
7879	South separator	do	0.40
7880	CGale(N)	Brushville	8.40
7881	C Gale(M)	do	0.10
7882	O Rhel (N)	do	3.40
7883	O Rhel(M)	do	
7884	C Larson	do	8.00
7885	F Larson	do	3.80
7886	Walters	do	8.00
7887	H Hanson	do	8.40
7888	M Hanson(N)	do	8,10
7889	M Hanson(M)	do	4.00
7890	W Gaxson (N)	do	8.40
7891 ,	W Gaxson(M)	do	4.20
7892	W Hendrich(N)	do	3.40
7893	W Hendrich(и)	do	4.10
7894	D Schmidt(N)	do	8.00
7895	D Schmidt(M)	do	4.00
7896	W Wendt(N)	do	8 00
7897	\mathbf{W} Wendt(M)	do	4.00
7898	C Dittman	do	3.80
7899	C Zable(N)	do	3 80
7900	C Zable(M)	do	4.20
7901	H Strehlon(N)	do	3.10
7902	H Strehlon(M)	do	4.40
7908	Chas Larson	do	3.50
7904	C Bagle	do	3.40

Lab. No.	Name,	P. O. Address.	Amount test.
7905	C Bagle	BrushvilleM	4.20
7906	F Zugenhagmet	do N	
7907	F Zugenhagmet	do	
7908	L Johnson	do	3.70
7909	R Rogers	doN	3.60
7910 7911	R Rogers	do	
7911	Peter Nelson Peter Nelson	do	3.40
7913	Peter NelsonL Malson	do	4.60 3.20
7914	J P Nelson	do	4.00
7915	H Lookey	do	3.60
7916	H Lookey	do	
7917	W Lindekugle	do	3.80
7918	W Lindekugle	do	3.80
7919	B Stumpner	do	4.00
7920	Gus Schaneck	do	3.80
7921	A Radschell	do	3.60
7922	A Radschell	do	3.80
7928	P Gyes	doN	3.80
7924 7925	P Gyes	do	4.00
7926	A Salter	doN	3.20
7927	H Gramsches	do	4.80
7928	H Gramsches	do	3.80 4.00
7929	C Morse	do	3.20
7930	C Morse	do	4.20
7931	O Hempel	do N	2.60
7932	O Hempel	do	4.00
7933	C Winter	do	3.80
7934	H Deppe	do	3.80
7935	Mrs Hansen	do	3.40
7936	A Howard.	do	3.20
7937 7938	A Skinner	do	3.20
7+39	Winter & Oestrich	Horicondo	2.80
7940	Mrs Chandler	do	3.20 3.60
7941	Louis Schleicker	do	3.40
7942	H Oestrich	do	3.70
7943	Wm Schitel	do	4 00
7944	C Albert, Sr	do	4.00
7945	John Mickel	do	4.00
7946	Ed Koleise	do	4.40
7947	C Ebert	do	4.00
7948 7949	W Marquardt	do	3.80
7919	C Hartell	do	3.20
7951	C Albert, Jr	do	3.70
7952	Zimmerman	do	3.20 3.40
7953	F Willard	do	3.40
7954	Aug Drach	do	3.10
7955	Mrs Schwinge	do	3.70
7956	W Stueber	do	4.00
7957	W Roseman	····do	3.60
7958	F Weber	do	4.20
7952	Aug Dugershin	do	4.10

Lab. No.	Name.	P. O. Address.	Amour t test.
7960	Henry Bishart	Horicon	4.60
7961	Henry Busenwitz	do	4.60
7962	Abe Schencan	do	4.30
7963	Fred Luek	do	4.60
7964	Aug Bartell	do	3.80
7965	Aug Schwenzon	do	4.60
7966	Julius Roeneld	do	4.50
7967	Pat Monohan	do	5.20
7968	Chas Timme	do	4.50
7969	Aug Appeld	do	4.40
7970 7971	G Schulz	do	3.50
7972	Louis Lubke	Brodh od	4.30
7973	R J Day	Brodhead	4.40
7974	Butter milk	do	0.40 3.80
7975	A C Douglas	do	3.20
7976	L Fairman	do	3.40
7977	E W Fairman		3.60
7978	C Wooster	do	3.60
7879	A Pierce	do	4.30
7980	D Austin	do	3.50
7981	Geo St John	do	4.00
7982	Chas Burnstein	do	4.00
7983	Tom Oliver	do	3.70
7984	James Oliver	do	4.00
7985	Benry Heath	do	4 00
7986	Charles Lawton	do	4.20
7987	D H Hastings	co	5.00
7988	Joe Fuller	do	4.40
7989	Chas Roberts	do	
7990	J Bliss	do	
7991	A Mitchell	do	
7992	Chae Harden.	do	4.10
7993	James McNett	do	3.60 4.00
7994 7995	Thomas Douglas	də	4.00
7996	Fred Besser	do	4.20
7997	Chas Rumely	do	3.80
7998	Aug St John.	do	3.70
7999	Albert Moore	do	3.60
8000	Louis Smith	do	4.00
8001	James Ward	do	3.90
8003	Chas Neville	do	5.20
8003	8kim milk	do	0.40
8004	C Zinkel	Manitowoc	4.20
8005	F Lukow	do	4.00
8006	G T Dagenhart	do	4.60
8007	F Groella	do	4.20
8008	G Mundt	do	
8009	F Roemer		4.50
8010	H Kansier	do	4.10 3.80
8011	E Kuchnes	do	
8012 8013	J Carston	do	4.40
COTO	U Carpilli	do	

No.	Name,	P. O. Address.	Amount test.
8015	W Smazall	! !EManitowoo	3.2
8016	H Schmitz	do	4.0
8017	P Branchman	do	4.0
8018	H Fehrman	do	3.8
8019	W H Schroeder, Jr	do	4.4
8020	W H Schroeder, Sr	do	3.9
8021	L Schmitz	do	3.4
8022	H Heydrich	do	4.8
8023	H Hauft.	do	8.9
8024	Wm Schuete	do	4.0
8025	F Huebner	do	4.0
8026	G J Degenhart	do	4 2
8027	F Karthanes	do	4.4
8028	C Dill	do	4.2
8029	J Frost	do	3.7
8030	C Schmidt	do	4.2
8031	g Wehrmein		4.2
8032			4.2
8033	J Buchhoff	do	4.0
8034	J Kuehne		3:8
8035	J Behrenger	do	4.0
8036	H Buchoeft	do	4 2
8037	C Maack	do	4.1
8038	E Carston	do	3.8
8039	F Jenicher	do	8.8
8040	DeLavalle seaprator	do	.2
8041	Sharpless separator	do	.2
8042	A Meyer	do	3,9
8043	M Hattich	New Denmark	3.8
8044	John Melan	do	4.0
8045	H Rasmansen	do	3.5
8046	C Jurgensen	do	3.9
8047	B Bartelme	do	4.0
8048	Jale Colocheske	do	4.4
8049	L Larsen	do	3.8
8050	R Nelson	do	3.8
8051	H P Schmidt	do	3.6
8053	N P Johnson	do	3.2
8053	M Krekner	do	4.2
8054	Aug Peterson	do	3.2
8055	Hans Anderson	do	3.9
8056	Peter Rasmusen	do	4 (
8057	John Hager	do	5.4
8058	Frank Kelinger	do	3.6
8059	N Yanek	do	3.8
8060	A Burssky	do	4.1
8061	Joe Hager	do	3.2
8062	Gus Hager	do	3.9
8063	Peter Anderson	do	3.5
8064	L Kellmer	do	3.0
8065	C Demmer	do	3.9
8066	Paul Chicora	do	8.8
8067 8068	G Mass	do	3.8
0000	John Mass	do	3.8

8100 George Wanck do 8101 John Petrick do 8102 M Devine do 8103 Anton Kendall do 8104 John Weis do 8105 Fred Schumaker do 8106 Charles Hamask do 8107 Julius Kabler do 8108 John Extain do 8109 Anton Cherovesky do 8110 John Kazeka do 8111 John Stangel do 8112 Jacob Oswald do 8113 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	ount	P. O. Address.	Name.	Lab. No.
8071 Hans P Johnson do 8072 Henry Fogeldance do 8074 Wm Vanek do 8075 John Schultz do 8076 Albert Obitski do 8077 L Lozinsky do 8078 Joe Herman do 8079 Chas Schultz do 8080 John Hanson do 8081 Mat Demmer do 8082 Ferman do 8083 N Peter Rasmusen do 8084 Joe Karlasky do 8085 Thos Stewley do 8086 N R Hansen do 8087 Joe Pauler Carlton 8088 Wm Paddleford do 8089 Frank Albrecht do 8080 John Melegina do 8090 Joe Kosmich do 8091 Joe Kosmich do 8092 Jee Kosmich do 8093 St	8.80	New Denmark	Peter Larson	8070
No. No.	3.60		Hans P Johnson	8071
S073	2.80		Henry Fogeldance	
8074 N Hansen do 8075 John Schultz do 8076 Albert Obitski do 8077 L Lozinsky do 8078 Joe Herman do 8079 Chas Schultz do 8080 John Hanson do 8081 Mat Demmer do 8082 F Herman do 8083 N Peter Rasmusen do 40 Joe Karlasky do 8084 Joe Kallasky do 8085 Thos Stewley do 8086 N R Hansen do 8087 Joe Saller Carlton 8088 Wm Paddleford do 8089 Frank Albrecht do 8089 Frank Albrecht do 8090 Jares Kosmich do 8091 John Melegina do 8092 Steuben Sidel do 8093 Steuben Sidel do 8094	4.00	do	Wm Vanek	8073
8076	3.80	do	N Hansen	8074
Soff Joe Herman	4.00	do	John Schultz	8075
Sor Sor	4.60	do	Albert Obitski	
Solition Chas Schultz Solition Solit	4.00	do	L Lozinsky	
Solition	3.60	do		
Mat Demmer	3.80			
8081 Mat Demmer do 8082 F Herman do 8083 N Peter Rasmusen do 8084 Joe Karlasky do 8085 Thos Stewley do 8086 N R Hansen do 8087 Joe Pauler Carlton 8088 Wm Paddleford do 8089 Frank Albrecht do 8090 James Zalinsky do 8091 John Melegina do 8092 Joe Kosmich do 8093 Steuben Sidel do 8094 F W Pelisk do 8095 Joe Blink do 8096 Geo Frondy do 8097 Ardon Kozmick do 8098 Joe Albrecht do 8099 Frank Urban do 8100 George Wanck do 8101 John Petrick do 8102 M Devine do 8103 Anton	3.60	do		
S082	4.00	do		
No. Peter Rasmusen	3.40	do		
Solition Stewley Solition Stewley Solition Stewley Solition S	3.50	do		
S086	4.00	do		
S086	3.40	do		
S088 Wm Paddleford do	3.90	do		
Sologo	8.60		Joe Pauler	
Solition Steuber Ste	4.00		Wm Paddleford	
Solition Solition	3.40		Frank Albrecht	
Soy	4.10		James Zalinsky	
Steuben Sidel	2.50	do		
Superstant	4.00			
Soy Joe Blink	4.00	do		
S096 Geo Frondy.	8.30	do		
8097 Ardon Kozmick do 8098 Joe Albrecht do 8099 Frank Urban do 8100 George Wanck do 8101 John Petrick do 8102 M Devine do 8103 Anton Kendall do 8104 John Weis do 8105 Fred Schumaker do 8106 Charles Hamask do 8107 Julius Kabler do 8108 John Extain do 8109 Anton Cherovesky do 8110 John Kazeka do 8111 John Stangel do 8112 Jacob Oswald do 8113 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119	4.20	do		
Soy Soy	3.80	do		
Stank Urban do	3.80			
Si00 George Wanck do	3.80			
Since John Petrick do				
Since M Devine	3.60			
Si08	3.40			
Since Sinc	4.80		Anton Kondoll	
Since Fred Schumaker do	4.00	do	John Weig	
Si06 Charles Hamask do Julius Kabler do do Si07 Julius Kabler do do Si08 John Extain do do Si09 Anton Cherovesky do do Si10 John Kazeka do Si11 John Stangel do do Si12 Jacob Oswald do Si13 Frank W Paulie do Si14 Joe Odradovce do Si15 Joe Stanger do Si16 Mat Kallar do Si17 C Hapener Fox Lake Si18 F Smith do Si19 W Borst do Si19 W Borst do Si19 Sins Sins	8.40 4.40			
8107 Julius Kabler do 8108 John Extain do 8109 Anton Cherovesky do 8110 John Kazeka do 8111 John Stangel do 8112 Jacob Oswald do 8113 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	3.40	do		
8108 John Extain do 8109 Anton Cherovesky do 8110 John Kazeka do 8111 John Stangel do 8112 Jacob Oswald do 8113 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	3.4 (
8109 Anton Cherovesky do 8110 John Kazeka do 8111 John Stangel do 8112 Jacob Oswald do 8113 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	4.70	do		
8110 John Kazeka do 8111 John Stangel do 8112 Jacob Oswald do 8118 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	3.20			
8111 John Stangel do 8112 Jacob Oswald do 8118 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	8.30		John Kazaka	
8112 Jacob Oswald do 8113 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	3.50		John Stangel	
8118 Frank W Paulie do 8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	4.00		Jacob Oswald	
8114 Joe Odradovce do 8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	3.80		Frank W Paulie	
8115 Joe Stanger do 8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	2.80			
8116 Mat Kallar do 8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	3.30			
8117 C Hapener Fox Lake 8118 F Smith do 8119 W Borst do	3.60	do		
8118 F Smith	4.00	Fox Lake		
8119 W Borstdodo	5.20			
	4.60			
UINU I U DUMUMA,	5.00	do	C Schultz	8120
8121 C Haasdodo	4.40		С Няав.	
8122 C Porter	4 10		C Porter	
8128 R Rollettdo	4.80	do	R Rollett	
8124 W Ludwick do	5.00	do	W Ludwick	8124

Lab. No.	Name.	P. O. Address,	Amount test.
8125	W Pandes	Fox Lake	4.80
8126	F Hoffman	do	4.80
8127	H Wood	do	4.50
8128	M Mikle	do	4.20
8129	A Mauk	do	4.40
8130	F Basefield	do	3.80
8131	G Schuetz	do	
8132	A Buss	do	4.60 3.90
8133	H Keal	do	
8134	J B Buss	do	4.80
8135	F Buss.	do	4.20
8136	W Wanerene	do	5.20
8137	R Ray	do	4.10
8138	Kettle	do	4.00
8139	Kettle L Knutson (N)	do	4.40
8140	I Knutson (M)	Broadhead	4.20
8141	LKnutson (M)	do	4.80
8142	Buttermilk	do	.30
8143	Peter Bye	do	4.30
8144	C W Warner	do	4.00
8145	PL Dedrick	do	4.00
8146	Olie Dixon	do	4.40
	A Lunely	do	4.20
8147	Mrs. A Knutsen	do	4.00
8148	J Stahlmakes	do	4.00
8149	John Bryce	do	4 30
8150	John Iversou	do	3.60
8151	om Larson	do	3.80
8152	J Whitehead	do	4.00
8153	H P Garde	do	3.40
8154	W Starkpole	do	3.40
8155	A Shirleg	do	3.70
8156	A Slaveakakl	do	3.80
8157	A O Luce.	do	4.00
8158	Dick Watts	do	4.20
8159	Jim Corchim	do	4.40
8160	Jim Fitch	do	4.00
8161	John Hegge	do	4.00
8162	A C Olin	do	8.40
8163	Wm Benjamin	do	4.40
8164	H w Benjamin	do	4.20
8165	Wm Springstead	••• do	4.30
8166	G K Ristigen	do	4.00
8167	U Barkes	do	4.30
8168	A O Slardock	do	4.60
~169	A Hannaman	do	4.60
8170	Sever Swinson	do	4.30
8171	CC Gardner	do	4.20
8172	W Gardner	do	4.00
8273	Frank Breed	do	4.00
8174	Halver Dixon	do	4.60
8175	Ole Dustrude	do	4.20
8176	A Gardner	do	3.50
8177	Alex Johnson	do	8.70
8178	SS Everson	do	4.20
8179	Pat Conlin	do,	3.80

Lab. No.	Name.	P. O. Address.	Amoun test.
8180	Geo Ward	Brodhead	4.2
8181	HC Sabin	do	4.4
8182	Ole Norman	do	4.0
8183	W W Meachan	do	4.5
8184	PS Everson	do	4.4
8185	E More	do	4.0
8186	G Condon	do	4.2
8187	Skim milk	do	0.2
8188	A Temps	Sheboygan Falls	3.6
8189	John Ernnereck	do	2.8
8190	John Ernnereck	do M	4.0
8191	L Hudsmart	do N	3.0
8192	L Hudsmart	do	4.2
8193	John Temps	do N	3.4
8194	John Temps	do	4.2
8195	Tom Harker		3.4
8196	Tom Harker	do	
8197	J Bookman	do M	4.0
8198	J Bookman.	do N	4.0
8199	Z Wenzel	do M	4.4
8200	Z Wenzel	doN	3.5
8201	H Fritz	do M	4.1
8202		do N	3.1
8208	N Lawrence	do M	4.0
8204	F Buss	do	8.6
8205	T longby	do	3.5
8206	T Jonaby	do N	3.3
8207	T Jonaby	do	4.6
8208	Ed Kennedy	doN	8.2
8209	Ed Kennedy	do	4.4
8210	W Tewmkel	do N	3.5
8211	A Morgot	do	4.4
8212	A Merget	do N	-8.4
8213	A Merget	do M	3.8
8214	C Hecker. C Hecker.	do N	3.6
8215	H Bowertink	do M	4.5
8216	H Dowertink	do N	3.2
8217	H Bowertink	do	4.5
8218	D Wolfort	do N	8.2
8219	D Wolfort	do <u>М</u>	4.4
8220	H Leizin	do	3.3
8221	H Leizin	do	4.8
8222	J Kappins	do N	8 8
8223	J Kappins	do	4.1
8224	F Lempke	Macksville	4.0
8225	Wm Schabow	do	3.9
8226	C Handhoplaf	do	4.0
8227	Mrs Gregarius	do	3.6
8228	J Haferbecker	do	4.4
8229	J Theis.	do	3.8
8230	W Schmaling	do	8 6
8231	F Prestin.	do	3.8
8232	H Secker.	do	4.0
8233	J Pruzenhagen	do	4.0
		do	4.1

Lab. No.	Name.	P. O. Address.	Amount test.
8235	J Koelin	Macksville	8.70
8236	J Schwartz	do	3.80
8237	B Stittgeal	do	8.80
8238	J Riedfield	do	4.00
8239	N Reidland	do	4.10
8240 8241	Lew Alesh	do	3.80 4.80
8242	Vat	do	3.90
8243	John Hann.	South Osborn	4.40
8244	John Munster	do	3.60
8245	John Munster, Jr	do	4.10
8246	J Klahara	do	4.20
8247	Hugart Jorchon	do	4.00
8248	Wm Jense	do	3.40
8249	Adam Jorchon	do	4.00
8250	T M Mullen	do	4.20
8251	Wm Seivert	do	3.80
8252 8253	Wm Frestedd	,do	8.40 4.00
8254	John Moss	do	4.00
8255	John Bobzean	do	4.00
8256	August Timme	do	4.00
8257	Fred Smutz	do	8.70
8258	John Kratzman	do	3.70
8259	Mrs J Johs	do	8.60
8260	Adam Krabbi	do	3.00
8261	O D Sargent	do	8.00
8262	Chas Leefinth	do	4.40
8263	John Rohne	qo	4.40
8264 8265	Chas Ehlers	do	3.80 3.60
8266	Wm Duvel	do	3.60
8267	Wm Hammer	do	3.80
8268	Henery Weise	do	8,70
8269	CF Zart	Rose Lawn	
8270	Mrs Andrews	do	3.90
8271	J Sawbergs,	do	4.30
8272	A Karplinski	do	5.00
8273	Slrulkse	do	4.80
8274	S Crow	do	4.20
8275 8276	A Anderson	do	4.00 3.90
8267	A G Nelson	do	5.00
8278	W B Hutchison	do	4.80
8279	H D March.	do	4.00
8280	John Bloom.	do	4.80
8281	GS King	do	4.40
8282	L Neumeyer	Leroy	4.40
8283	K Sleeve	do	4.50
8284	Carl Coleman	do	4.00
8285	John Neumeyer	do	3.60
8 286 8287	Mike WildFrank Volner	do	4.20 8.50
8288	J Altman	do do	4.20
8289	R Woodman	do	4.20

Second S			•	
Section Sect		Name.	P. O. Address.	
Second S	8290	Joseph Steer	LeRov	4.10
8293 John Huber do 4.44 8263 A Smithtower do 3.86 8294 J. Schrufnagle do 3.80 8295 Mary Vossen do 4.00 8296 S Wild do 3.60 8297 Frank Schmidt do 4.44 8298 J. W. Wittman do 3.60 8299 Joe Hart do 3.00 8300 Jacob Mey do 3.20 8301 Frank Jungbeck do 4.83 8302 Miss Marian do 3.50 8303 A Starr do 3.50 8304 — Jungbeck do 4.40 8305 — Bohen do 4.40 8306 — Reiser do 4.00 8307 Joeph Wittmann do 4.00 8308 M Starr do 3.60 8310 Joe Banes do 4.00 8311	8281	Frank Bowers	do	8.90
Second S	8292	John Huber		4.40
8294 J. Schrufnagle. do 3.86 8295 Mary Vossen do 4.00 8297 Frank Schmidt do 4.44 8298 J. W. Wittman do 3.60 8299 Joe Hart do 3.00 8300 Jacob Mey do 3.20 8301 Frank Jungbeck do 4.80 8302 Miss Marian do 3.50 8303 A Starr do 3.60 8304 — Jungbeck do 4.40 8305 Bohen do 4.40 8306 Reiser do 4.00 8307 Joseph Wittmann do 4.00 8309 Frank Starr do 3.60 8310 Joe Banes do 4.00 8311 H Wittmann do 3.80 8312 W M Kallman do 3.60 8313 Jacob Troli do 3.60 8314	8263			3.80
Supplementary Supplementar	8294	J. Schrufnagle		3.80
S297			do	4.00
8298 J. W. Wittman .do 3.88 8399 Joe Hart .do 3.20 8301 Frank Jungbeck .do .3.20 8303 Miss Marian .do .3.60 8304 — Jungbeck .do .4.60 8305 — Bohen .do .4.40 8306 — Reiser .do .4.00 8307 Joseph Wittmann .do .4.00 8308 M. Starr .do .3.20 8310 Joe Banes .do .3.20 8311 Joe Banes .do .4.00 8312 W. M. Kallman .do .3.80 8313 Jacob Troll .do .3.60 8314 Joseph Kallman .do .3.60 8315 J. Zangle .do .40 8316 M. Kohlhammer .do .3.60 8317 M. Weir .do .3.60 8318 H. Guse .do .3.60	7 . 2		do	3.60
Say Joe Hart				4.40
Same			do	3.80
Sacrophysics Sacr				8 00
Signature Sign				3.20
Sample A Starr				4 80
Same				3.50
Bass Bohen				8.60
Reiser				
Same				
8308 M Starr do 3.60 8309 Frank Starr do 3.20 8310 Joe Banes do 4.00 8311 H Wittmann do 3.80 8312 W M Kallman do 3.90 8313 Jacob Troll do 3.60 8314 Joseph Kallman do 3.70 8315 J Zangle do 4.00 8316 M Kohlhammer do 3.80 8317 M Weir do 3.60 8318 H Guse do 3.60 8319 Wm Spoonholz do 3.60 8320 J Wuthman do 3.60 8321 J Wethman do 3.30 8322 J Berut do 3.40 8323 J Mathers do 3.70 8324 K Stumppe do 3.40 8325 J Puhland do 3.60 8326 G Holler				
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Sail H Wittmann do				
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8312 W M Kallman do 3,90 8313 Jacob Troll do 3,60 8314 Joseph Kallman do 3,70 8315 J Zangle do 4,00 8316 M Kohlhammer do 3,80 8317 M Weir do 3,60 8318 H Guse do 3,60 8319 Wm Spoonholz do 3,60 8320 J Wuthman do 3,60 8321 J Weber do 3,60 8322 J Berut do 3,40 8323 J Berut do 3,40 8323 J Mathers do 3,70 8324 K Stumppe do 3,40 8325 J Puhland do 3,80 9326 G Holler do 4,20 8327 J Strumpf do 4,20 8329 J Scraufnagle do 3,50 8330 L Wetznee				
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8327 J Stumpf. do 4.20 8328 F Jesse do 4.20 8329 J Scraufnagle do 3.50 8330 L Wetznee do 3.00 8331 A Weigline do 3.60 8332 George Isschen Brownsville 3.20 8333 W Knox do 3.80 8334 W Knox do 3.80 8335 - Bromer do M 3.40 8337 F Wegner do M 3.40 8338 Chas Hollbeck do 3.40 8339 John Braun do 3.50 8340 A Houser do 3.80 8341 Herman Mertens do 3.80 8443 G Kuper do 3.40	8325		do	3 80
8928 F Jesse do 4.20 8329 J Scraufnagle do 3.50 8330 L Wetznee do 3.00 8331 A Weigline do 3.60 8332 George Isschen Brownsville 3.20 8333 W Sohre do 3.60 8334 W Knox do 3.80 8335	9326	G Holler	do	4.00
8328 F Jesse .do 4.20 8329 J Scraufnagle .do 3.50 8330 L Wetznee .do 3.60 8331 A Weigline .do 3.60 8332 George Isschen Brownsville 3.20 8333 W Sohre .do 3.80 8334 W Knox .do 3.80 8335 - Bromer .do M 3.40 8337 F Wegner .do M 3.40 8338 Chas Hollbeck .do 3.40 8339 John Braun .do 3.50 8340 A Houser .do 3.80 8341 Herman Mertens .do 3.80 8342 Frank Billings .do 3.40 8443 G Kuper .do 3.40		J Stumpf	do	4.20
8330 L Wetznee do 3.00 8381 A Weigline do 3.60 8332 George Isschen Brownsville 3.20 8333 W Sohre do 3.60 8334 W Knox do 3.80 8335 Bromer do N 2.90 8336 Bromer do M 3.40 8337 F Wegner do 3.20 8338 Chas Hollbeck do 3.40 8339 John Braun do 3.50 8840 A Houser do 3.80 8341 Herman Mertens do 3.80 8342 Frank Billings do 3.40 8443 G Kuper do 3.40		F Jesse	do	4.20
8381 A Weigline. do 3.60 8332 George Isschen. Brownsville. 3.20 8333 W Sohre. do 3.60 8334 W Knox. do N.80 8335 — Bromer. do N.90 8336 — Bromer. do M.340 8337 F Wegner do 3.20 8388 Chas Hollbeck do 3.40 8339 John Braun do 3.50 8341 Herman Mertens do 3.80 8342 Frank Billings do 3.40 8443 G Kuper do 3.40				
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8342 Frank Billings do 8.40 8443 G Kuper do				
8443 G Kuper do				
OUR - ILEBUTICH	8344	— Hesprich		J

Lab. No.	Name.	P. O. Address.	Amount test.
8345	L Martin	Butte des Morts	4.20
8346	H Yeager	do	4.80
8347	H Benedict	do	4.40
8348	H Lightfoot	do	4.70
8349	B E Lilly	do	3.00
8350	Geo Windler.	do	4.40
8351	S Smith.	do	4.40
8352	H Haltz	do	4.83
8353	C H Gove.	do	4.50
8354	J Snyder	do	4.00
8355	J Champion	do	3.60
8356	B B Bicer	do	3.80
8357	D N Libby	do	4.80
8358	W Lubtke	do	3.70
8359	P Smith.	do	3.90
8360			4.00
8361	R Smith	do	
8362	M Carrey	Greenleaf	4.10 3.20
8363	Jake Vanduesen	do	3.40
	B Day	do	3.40
8364	R P Russel	do	
8365	P Lockus	do	4.40
8366	O C Rarates	do	3.40
8367	OJ Rarates	do	3.80
8368	W Zimmerman	do	2.80
8369	C Chase	do	4.40
8370	P Tubor	do	3.30
8371	H Baumn	do	4.40
8372	H Baumn	do	4.50
8373	J B Brickmaker	do	3.80
8274	H Knoespeil	do	3.40
8375	Aug Felelt	do	3.70
8376	M Somers	do	3.40
8377	A Gilson	do	5.00
8378	Ang Slater	do	4.80
8379	Aug Slater,	اdo	3.80
8380	Julius Clark	do	3.10
8381	Mrs Ross	do	3.60
8382	H Vandermiller	do	3.40
8483	John Dickinson	do	4.20
8384	Joe Cummings		3.10
8385	John Clark	do	4.80
8386	John Clark	do	3.20
8387	H Vanderfort	do	3.20
8388	H Vanderfort	do	4.20
8389	John Pagel	do	3.20
8390	John Pagel	do	4.00
8391	James Sullivan	do	3.00
8392	P Hahn	do	3.00
8393	P Hahn	do	4.00
8394	Julius Wbrger	do	4.00
8395	S Cornell	do	3.80
8396	A Manders	do	3.40
8397	John Elton	do	4.10
8398	M G Krause	do	3.50
8399	George Baton	do	3:80

Lab. No.	Name.	P. O. Address.	Amount test.
8400	George Gilson	Greenleaf	4.20
8401	John Hespey	do	4.40
8402	Frank Gilson	do	4.00
8403	C W Day	do	3.80
8404	C W Day	do	4.00
8405	John Clancey	ao	4.10
8406	L Gilson	do	3.40
8407	H Busch	Reedsville	5.00
8408	Frank Burich	do	4.40
8409	Wenzel Schumon	do	4.20
8410	John Wesley	do	4.00
8411	Joe S Vada	do	4.40
8412	Frank Kuvale	do	4.60
8413 8414	Albert Kuvale	do	4.20
8415	George Bubots	do	4.80
8416	Alf Kreager	do	4.70
8417	Aug Kratz	do	4.80
8418	Joe Krich	do	5.20
8419	Louis Turnsky	do	4.20
8420	Albert Brich	do	4.20
8421	Jack Votavo	do	4.30
8422	V Budiloasky	do	4.20
8423	Butter Milk	Wilton	0.20
8424	JE Moughmer	do	4.10
8425	J McEvoy	do	3.80
8426	SJ Dow	do	4.50
8427	L Dow	do	4.00
8428	Charles Ferris	do	3.60
8429	O L Stockwell	do	4.00
8430	G V Hargraves	do	4.00
8431 8432	Frank Wendorf	do	4.00
8433	John Schroeder	do	3.80 3.90
8434	Carl Fisher	do	4.40
8425	Wm. Arndt W Daege	do	
8136	E Daugherty	do	3.80
8437	F Waege	do	3.80
8438	F C Waege	do	4.20
8439	Mrs Sinks	do	3.80
8440	ON Hilyer		4.60
8441	Pat Duane		4.20
8442	W W W Wilder	do	4.80
8443	M Cramer	do	4.30
8444	Ed Kranze	do	6.00
8445	Frank Framer	do	4.20
8446	Skim milk	do	.00
8447	Sen Johnson	do	4.60
8448	V Abbott	do	4.80
8449	J H Harland	do	5.00
8450 8451	George Platner	do	4.60
8451 8452	Elmer LaRue	do	4.00 3.90
8453	Wm Ryan	dodo	4.20
8454	J D Abbott		4.80

Lab. No.	Name.	P. O. Address.	Amount test.
8455	Orlo Urich	Wilton	4.30
8456	Fred Krause	do	4.20
8457	W E Todd	do	4.40
8458	Wm Schultz	do	4.60
8459	F Hayward	do	4.20
8460	Mrs D Whalen	do	3.80
8461	C Wolkow	do	4.20
8462	Aug Lange	do	4,00 4,60
8463 8464	J Breslin	do	3.80
8465	A O'Leary	do	4.20
8466	John O'Leary	do	4.20
8467	Mrs Chas Strozinsky	do	4.20
8468	C Bernhardt	do	4.70
8469	Wm Green wm Gerwing, Jr	Woodland	4.30
8470	Wm Gerwing, Sr	Woodlanddo	4.30
8471	Aug Plangman.	do	4.00
8472	M Schott	do	4.00
8473	H Quandt	do	4.00
8471	F Timme	do	4.50
8475	L Melcher	do	4.10
8476	W Kruete	do	4.20
8477	G Erschen	do	4.20
8478	P Gelzinger	do	3.90
8479	Aug Straus	do	4.50
8480	W Quandt	do	4.10
8481	M Schott	do	4.40
8482	C Gassmer	do	5.00
8483	Wm Garving, Sr	do	4.40 4.20
8484 8485	Aug Plaugman	do	3.90
8486	Aug Schingles	do	4.80
8487	W Garving Jr	do	4.20
8488	P Getsinger	do	4.60
8489	W Durbekee.	do	4.60
8490	W Quandt	do	1.00
9491	F Timme	do	4.20
8492	L Melches	do	4.00
8493	L Braunn	do	4.00
8494	W Knutt	do	4.40
8495	C Quandt	do	3.70
8496	J Kinkle	do	4.80
8497	C Fritting	do	4.80
8498	H Quandt	do	4,60
8499	J Erschen	do	4.60
8500 8501	A Plaugman, Jr.	do	4.60
8501 8502	Aug Straus	do	4.60 5.00
8503	W Zimmerman	do	4.60
8504	Joe Combings H Knespel	do	4.40
8505	H Santze	do	4.60
8506	Aug Stobin	do	4.50
8507	Henry Hespy	do	5.20
8508	H Brittimaker	do	4.40
	J Vanduesen		

Lab. No.	Name.	P. O. Address.	Amour t
8510	B Day	Greenleaf	4.60
8511	H Baum	do	4.60
8512	O Christian	do	4.20
8513	Joe Elton	do	4.80
8514	A Vanderwater	do	4.60
8515	J Sullivan	do	4.20
8516	P Hahn	do	4.40
8517	Jule Werger	do	4.40
8518	S Carnell	do	4.60
8519	A Manders	do	4.40
8520	George Baeton	do	4.80
8521	Will Dickson	do	4.60
8522	Gus Felett	do	5.00
8523	Wm Summers	do	4.80
8524	H Vanderfort	do	4.70
8525	John Clancey	do	5.00
8526	John Clark	do	3.80
8527	John Pagel	do	4.20
8528	C M Day	do	4.20
8529	J C Harris	Whitewater	4.20
8530	Bloodgood	do	4.80
8531	Sam Kirk	do	
8532	Gill & Norton	do	4.10
8533	Mary Lee	do	5.50
8534	M Oleson	do	5.00
8535	John Winn	do	
8536	A Henderson	do	3.90
8537	Henry Ridge	do	4.00 4.50
8538 8539	C Churchill	do	4.52
8540	Walt Parish	do	1 2 2
8541	John Ridge R D Warner	do	4.50
8542	A Walga	dodo	3.60
8543	Thomas Lee	do	1 7:21
8544	A Peterson	do	1 7122
8545	Wm Lockyear	do	
8546	West & Tratt	do	
8547	Thomas Wogan	do	
8548	Henry Wilber		
8549	Peter Conley	do	
8550	L Qualman	Browns Corners	4.40
8551	WZastan	do	
₹552	Aug Grispentog	do	
8553	L Attenberg		
8554	L Dritz	¦do	
8555	E Wardenton		
8556	G Fredenak	do	
8557	F Alrich	do	
8558 8550	W Weber	do	
8559 8:60	W Gripenhog		
8561	F Gripenhog		1 7.11
8562	A Bredon	dodo	
8563	P Linderman	do	
8564	C Paukan		
. 5003		1	. I.IU

Lab. No.	Name.	P. O. Address.	Amount test.
8565	W Klamp	Brown's Corners	5.90
8566	H Qualman	do	3.50
8567	F Luepke	do	3.70
8568	Aug Glander	do	4.60
8569	H Glander	do	4.50
8570	Gruelke	Hustisford	4.80
8571	J Conlan	do	4.20
8572	W Suke	do	3.50
	Thom Baker		4.60
8573		do	
8574	Fred Siefeldt	do	4.60
8575	W Conlan	do	5.00
8576	W Conlan	do	5.10
8577	Mike Conlan	do	4.40
8578	H Rider	do	4.60
8579	H Rider	do	4.40
8580	G G Taylor	Whitewater	4.40
8581	Charles Natt	Lagrange	3 89
8582	Lean Bros	do	3.60
8583	George Taylor	do	4.00
8584	J_Ewings	do	4.40
85 85	H Brunsen	do	4.20
8586	R H Henderson	do	4.80
⊱587	F Dillon	do	3.60
8588	W Harris	do	4.20
8589	W Phelps	do	4.40
8590	J Lawton	do	4.70
8591	Sam Lawton	do	5.20
8592	Squire Lawton	do	5.40
8593	Squire Blomley	do	4.30
8594	J E Menzie	do	4.40
8595	J Patchen	do	4.40
8596	T Mahan	do	4.70
8597	W Fass	do	5.49
8598	J Walker	do	4.60
8599	G Gustaveson	do	4.40
8600	D Kruke	do	5.00
8601	J L Duffin	do	4.40
8602	K G Knutson	do	3.10
8603	C Holt	do	4.40
8604	J White	do	4.20
86 5	T Nolan	do	4.50
8606	B Blomley	do	4.00
8607	Geo Lewis	do	
8608	W Wait	do	4.10
8609	J Emerson	do	4.50
8610	W Wickenson		4.70
8611	W W Norcross	dodo	5.60
8612			4.10
8613	John Jesse		4.80
8614	E B Clark	'do	5.00
8615	M Quinn	do	4.40
	George Kemlins		
8616	H Blakely	do	3.60
8617	W Case	do	4.80
8618	H Haltz		4.40
8619	A Floeke	¦do	4.50

ANALYSES OF MILK.

Lab. No.	Name.	P. O. Address.	Amour test.
8620	H Hoffman	Whitewater	4.0
8621	W Carnes	do	4.
8622	H Lewis	do	4.
8623	Geo Burnham	do	4.
8624	W W Torrey	do	$\bar{4}$.
8625	A Foundry	do	4.
8626	J Leap	do	3.
8627	F Krekow	do	4.
8628	E Montgomery	do	5.
8629	Aug Jesse	do	4.
8630	Fred Keplow	do	4.
8631	Ernest Krelans	do	3.
8632	N Daniels	Union Grove	4.
8633	C Wilker	do	4.
8634	James Marvin	do	4.
8635	N Brick	do	2.
8636	P Stahl	do	4.
8837	J Weirman	do	4.
8638	F Ehlen	do	3.
8639	Skim milk	do	
8640	M Zein	do	4.
8641	W Kenin	do	3.
8642	M Eppeis	do	4.
8643	M Daniels	do	4.
8644	S Jackey	do	4.
8645	J Nox	do	$\begin{vmatrix} 3. \\ 3. \end{vmatrix}$
8646	A Brandt	do	5.
8647 8648	N Fetter C Selzenburg	do	4.
5649	J Pass	do	4.
8650	G Smith	do	3.
8651	J Meyer	do	3.
8652	W Hann	do	5.
8653	H Menher	do	4.
8654	E Newman		4.
8655	Skim milk, No. 2	do	1
8656	Skim milk, No. 1	do	i.
8657	J Englehardt	do	4.
8658	Skim milk, No. 2	do	Ι.
8659	J Daniels	do	4.
8660	E Carrol	do	5.
8661	J Terny	do	4.
8663	P Mich	do	5.
8663	J E Smith	Bear Valley	6.
8664	J Kichard	do	4.
8665	C Losee	do	3.
8666	Kellog Bros	do	4.
8667	W Spagy	do	4.
8668	C N Smith	do	4.
8669 8670	J Durst	do	5.
8671	O J Curey	do	4.
8672	R King	do	4.
8673	G R Jones		4.
8674	J J Runyan		4.
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Lab. No.	Name.	P. O. Address.	Amount test.
8675	A Schautz	Bear Valley	4.00
8676	J B Schwitz	do	4.80
8677	J W Haskins	do	4.20
8678	H King	do	3.50
8679	R Kippard	do	4.00
8680	Wm Earl	do	4.30
8681	D Earl	do	4.20
8682	N Jensen	do	3.70
8683	Mrs. Sullivan.	do	3.60
8684	C Walvoort	Cedar Grove	4.30
8685	P Anderson	do	5.00
8686	W Vruwink	do	4.20
8687	G Walroad	do	3.80
8688	J Wolfer	do	4.00
8689	A Smier.	do	4.60
8690	C Hubreg		4.40
8691		do	4.50
8692	J Van Der Waile	do	4.40
8693			4.40
8694	C Newrick	do	4.30
		do	4.50
8695	8 Van Driest	do	3.40
8696 8697	H Duenk	do	4.50
	H Clairbodt	do	3.20
8698	D Nerrhof	do	4.30
8699	M DeMarks	do	
8700	R DePayter		5.40
8701 8702	C Walvoard N R Patt	do	3.50
8708	N Vat	do	4.20
8704	Thomas Hilch	Eagle	3,60
8705	John Pearn	do	3.20
8706	Andrew Pearn	do	4.40
8707	R H Furnes	do	3.40
8708	George Mueller	do	5.00
8709	John Stag	do	4.00
8710	Fred Van Renden	do	5.00
8711	Thomas Burton	do	5.00
8712	Wm Fox	do	4.40
8713	James French	do	4 20
8714	Wm Pitt.	do	4.20
8715	Henry Kitts	do	3.80
8716	Heery Bucks	do	4.00
8717	Walter Carland	do	3.80
8718	A Brundenbock	do	3.40
8719	B Brundenbock	do	8.60
8720	Aug Steinhoff	do	4.80
8721	John Somers	do	4.40
8722	Giles Kean	do	8.60
8723	A Condon	do	4.60
8800	George Paasch	Sheboygan	4.80
8801	George Paasch	do	8.40
8802	Robt Fitzloff	do	8.60
8803	Robt Fitzloff	do	4.00
8804	Sheboygan Milk Co	do	4.30
	Wm Verhulst		3.80

Lab. No.	Name.	P. O. Address.	Amount test.
8806	Wm Verhulst	Sheboygan	4.00
8807	Wm Verhulst	do	4.20
8808	J H Van Opwerkirk	do	4.00
8809	J S Griswold	do	4.60
8810	J H VanOnwerkirk	do	4.00
8811	J H VanOnwerkirk	do	5.20
8812	J C Hartman	do	4.00
8813	J C Hartman	do	4.70
8814	Sheboygan Milk Co	do	3.80
8815	Sheboygan Milk Co	do	1 4 00
8816	Wm Rabde	do	4.20
8817	Wm Rabde	do	4.20
8818	Wm Rahn	do	4.20
8819	Wm Rahn	do	5.00
8820	J S Griswold	do	5.10
8821	Frank Bartzen	do	5.20
8822	Frank Bartzen	do	4.60
8823	Wm Grudge	do	3 90
8824	Wm Grudge	do	8.90
8825	C Delproot	do	4.80
8826	F H Gaeters	do	4.40
8827	Goerling Bros	do	4.60
8828	Goerling Bros	do	3.60
8829	Wm Puls	do	0.00
8830	F W Burnd	do	4.00
8831	FW rurnd	do	3.80
8832	Thos Kepler	Mosell	5.80
8833	A Dreppsson	Sheboygan	4.30
8834	Joe Lounsbury	do	4.80
8835	Joe Lounsbury	do	
8836	Sheboy gan Milk Co	do	4.20
8837	H Sherman	Columbus	4.60
8838	J Longfeldt	do	4.70
8839	A Hessell	ldo	3.60
88 4 0	J Straus	do	4.40
8841	C Whitefoot	do	5.20
8842	F Seede	do	4.60
8843	C Sastrow	do	5.40
8844	H Berg	do	4.00
8845	G Boynton	do	5.80
8846	W Cripps	do	5.20
8847	T Boynton	Mazomanie	5.60
8848	D Harrap	do	5.20
8849	F Showers	do	4.60
8850	Geo Giliman	do	4.80
8851	E M Hazeltine	do	4.20
8853	J Arnold	do	5.80
8853	J A Sheldon		5.10
8854	James Blake	do	4.20
8855	J H Greening	do	
8856	W_J Jordon	do	4.00
8857	J Dane	do	4.30
8858	J Bennett	do	5.00
8859	White & Corey	do	3.80
8860	A Schadler	do	4.60



Lab. No.	Name.	P. O. Address.	Amount test.
8861	Mrs Parell	Mazomanie	3.80
8862	A Blim	do	6.00
8863	Ed Winch	do	4.50
8564	C Kalsow	do	4.30
8865	Henry Everet	do	4.50
8866	J Hann	do	5.00
8867	H Lindly	do	5.10
8868	J Hare	do	5.00
8869	J Boyle	do	4.80
8870	J Newman	do	4.50
8871	C Kerr	do	4.90
8872	N Johnson	do	4.60
8873	Mathiason	do	4.60
8874	A Whitman	do	4.80
8875	Joe Campbell	do	3.80
8876	BF Stickney	do	5.40
8877	J Pott	do	4.10
8878	M Lucy	do	4.60
8879	Wm Mulanne	do	5.80
8880	J Lang	do	4.40
8881	J Steinback	do	€.80
8888	J Patterson	do	4.50
8883	L Neendorf	do	
8884	L Schadler	do	5.80
7885	G Stuffell	do	4,20
8886	Wm Klebersaddle	do	4.10
8887	H Werner	do	5.80
8888	T Higgins	do	4.00
8889	J Tyler	do	4.40
7890	A J Campbell	do	4.60
8891	J Bywater	do,	4.70
8892	J H Williams	do	5.40
8893	Parman Bros	do	
8894	H B Reeves	do	4.80
8895	Thomas Reeves		4.20
8896	J A Slawson		5.20
8897	J Harreb	do	5.00
8898	E Sheldon		4.70
8899	C Cairnes	do	5.10
8900	M Werner	do	5.40
8901	J C Morrill	do	4.40
8902	H D Catlin	do	4.40
8903	G R Taylor	do	4.20
8904 8905	T A Brown	do	5.40
	Wm Elver	do	5.10
8906 8907	Buttermilk	do	0.80
8908	Separator No. 1	do	0.10
8909	Separator No. 2	do	0.10 0.10
8911	A Hessell	Columbus	8.40
8912	J Longfeldt	do.	4.50
8913	H Sherman	do	3.60
8914	F Saide	do	8.60
8915	C Whitefoot	do	4.60
8916	C Sastrow	do	5.00



	Name.	P. O. Address.	Amount test.
	Berg	Columbus	8.60
	Schwartz	do	4.60
	Wright	Sharon	4.40
8920 Ber	t Lester	do	3.40 3.20
	lineuetter	do	4.00
	is Rath	do	3.60
	ob Richter	do	4.40
	ntague & Carl	do	4.40
	Shunk	do	8.80
8927 Ves	per & Nelson	do	3.20
	ler & Bollinger	do	8.40
	Higbee	do	4.80
	mon & Finn	do	4.00
	Lowell	do	4.60
	a Bollinger	do	3.20
	ngelbart	do	3.80
	Bollinger	do	3 50
	ot & Mansfield	do	3.60
	d Peterson	do	4.20 3.90
	Perkins	do	4.60
	llips & Raymon	do	
	is Hann	do	4.40
	e Ingulhart	do	4.60
	lister & Burton	do	5,70
	Marion	do	
	nk Browe	do	3.60
	Knaub	do	3.80
8946 O I	R Baily	do	4.60
	ſeeks	do	4.40
	Burton	do	4.60
	Sherman	do	4.60
	Broman	do	3.80
	Hugh & Wolcott	do	4.00 4.80
	Piper	do	4.80
	Piper	do	5.60
	ory Smith	do	4.20
	n Wait	do	4 00
	nk Wait	do	4.20
	Pramer	do	8.80
	n Carpenter	do	4.00
	n Shunk	do	400
8961 Joh	n Livingston	do	3.50
8962 Ste	ve Kernan	do	4.20
	ash	do	4,80
	Barnes	do	3,80
	Nash	do	4.70
	s Gile	do	5.00 3.90
	bros Gunning	do	4.00
	Conley	do	4.00
	n Conley arey & Carney	do	4.60
	Conley		8 80

Lab. No.	Name.	P. O. Address.	Amount test.
8972	F Crames	Sharon	4.20
8973	Geo Crames	do	3.90
8974	John Hinman	do	4.40
8975	Charles Giles	do	4.80
8976	L Arnold	do	4.00
8977	Henry Burst	do	4.40
8978	George Burst.	do	3.20
8979	Fuller & Staub	MerrillM	4.00
8980	Fuller & Staub	do N	4.20
8981	A S Baxter	do	4 20
8982	C Hibbard	do	3 20
8983	F B Trowbridge	do N	3.90 4.40
8984	F B Trowbridge	do M	3.80
8985	G W Wetter	WausauN	4.00
8986	Frank Kline.	do	3.60
8087	R E Parker.	., do	4.80
8988 8989	R E Parker.	de	4.20
8990	J G Hart.	WaukeshaN	4.50
8991	S G Hart	do	4.60
8992	W S Chapman	do	3.80
8993	W S Chapman.	do	3.60
8994	B Hart	do	3.80
8995	Fred Schneers	do	3.60
8996	Fred Schneers	do	3.80
8997	Adolph Heine	do	4.00
8998	Adolph Heine	do	4.80
8999	D Newhall	do	4 80
9000	D Newhall	do	4,80
9001	F Atkinson	do	3.60
0002	B Seller	do	2.80
9003	W H Dixon	do	4.00
9004	W H Dixon	do	3.80
9005	B Hart	do	4.00
9006	J Sharp.	Vernon	4.20
9007	J Price	do	3.80
9008	H Wallenzein	do	3.60 3.80
9009	W Kramer	do	3.80
9010 9011		do	4.00
9011	A Lerding James Weis	do	5.00
9012	John Cummings.	do	3.60
9014	Skim Milk.	do	4.40
9015	Butter Milk	do	.10
9016	T Christianson	do	.10
9017	P McKenzie	do	4 20
9618	A Keplin	do	4.10
9019	T Abel	do	4.00
9020	S Dable	do	4.60
9021	C Stuber	do	5 00
9022	C Platz	do	4.60
9023	G Sengeine	do	4.20
9024	W Carmikle	do	4.00
9025	L Platz	do	4.20
9026	W Daniels	do	4.60

Lab. No.	Name.	P. O. Address.	Amount test.
9027	G Werinrske	Vernon	
9028	H Werinaske	do	4.60
9029	J Welch	do	3.80
9030	F Ott	do	4.00
9031	T Carroll.	do	4.40
9932	James Stewart	do	4.60
9 033	H Fraser	do	4.2
9034	James Smith'	do	4.0
9035	H Wales	do	4.0
9036	John Vass	do	4.2
9037	A C Vanderpool	do	4.0
9038	A H Olison	do	3.80
9039	Geo Bertrone	do	4.4
9040	R Henderson	do	4.0
9041	M Hammond	do	5.00
9042	W ⊬ammond	do	4.6
9043	W Sharp	do	4.0
9044	A Meyer	do	4.2
9045	John Austin	do	4.2
9046	C L Henderson	do	6.6
9047	A Belen	do	4.2
9048	W Davis	do	4.4
9049	James Powers	do	4.8
9050	W Austin	do	5.0
9051	Thomas Smeaton	do	4.3
9052	D Howrie	do	3.8
9053	E Sprague	do	3.80
9054	John Van Buren, Jr	do	4.20
9055	John Van Buren, Sr	do	4.2
9056	W Wallenger	do	4.6
9057	W Loon	do	4.0
9058	G Nelson	do	4.1
9059	H Vickes	do	4 0
8060	R E McKinzie	do	3.8
9061	A Stuart	do	4.0
9062	A Olson	do	4.2
9063	S Olson	do	4.2
9064	O Nelson	do	5.0
9065	J Watchow	do	44
9066	O Hauver	Darien	4.0
9067	Butter milk	do	0.1
9068	Blakely & Wheeler	do(M)	4.8
9069	A D Fryer	do	4.6
9070	M O'Brien	do	3.9
9071	J Eye	do	4.6
9072	J Capen	do	4.0
9073	Ed Hastings	do	4.4
9074	N C Willard	do	4.2
9075	Skim milk	do	4.6
9076	H J Davis	do	4.5
9077	J F Saxton	do	4.4
9078	P Whalen, Jr	do	4.2
9079	C Mercner	do	
9080	J Welch	do	4.70
9081	C Allen	do	4.'

Lab. No.	Name.	P. O. Address.	Amount test.
9082	B Wise.	Darien	5.30
9083	S W Fisk	do	4.40
9084	C Martn	do	4.60
9085	J Lapser	do	5.40
9086	R Blackley	do	4.40
9087	J Turner	do	8.70
9088	W_Waterford	do	3.90
9089	J Brown	do	4.20
9090	Skim milk	do	.20
9091	M Bock	Watertown	3.80
9093	P Shauer	bo	3.60
9093	Theo Wedenmeyer	do ,	3.30
9094	H Schmuckle	do	3.70
9095	W_Williams	do	3.70
9096	K Donnaue	do	3.50
9097	J Stiffet	do	8.50
9098	Skim milk	do	.00
9099	Wm Graining	do	3.40
9100	WJ Lyman	do	3.30
9101	W Marquart	do	4.80
9102	Skim milk	do	.00
9103	Buttermilk	do	.10
9104	H Stuber	do	3.80
9105	J Hufs	do	3.20
9106	A L Williams	do	3.30
9107	C Fisher	do	3.20
9108	J Dunn	do	3.80
9109	Joe Halstiene	do	4.00
9110	J Berger	do	4.00
9111	T Donahue	go	3.70
9112	J Thomas	do	3.60
9113	J Jones	do	3.20
9114	Fred Weber	Neenah	՝ 2.80
9115	John Fath	do	3.40
9116	H E Huxley	do	2.00
9117	H E Huxley	do	8.50
9118	O Anderson	do	3.40
9119	John Huxley	do	3.40
9120	A J Thornton	do	4.30
9121	George Wilz	Menasha	2.70
9122	George Wilz	do	3.40
9123	Charles Gear	do	3.40
9124	Charles Gear	do	4.30
9125	H Reines	Shopiere	8.40
9126	T Bostrick	do	3.00
9127	D Schmeale	do	4.50
9128	E Smith	do	3.10
9129	F Kemmer	do,	4.70
9130	A Groulke	do	3.80
9131	D Wright	do	3.50
9132	Wm Hohn		3.60
9133	G Gilbertson	do	
9134	CGilbert		3.40
9135	J Atkinson		4.00
9136	D Parker	do	4.20

Lab. No.	Name.	P. O. Address.	Amount test.
9137	R Rath	Shopiere	3.70
9138	J Schimmeal	do	4.50
9139	E Hopkins	do	4.30
9140	J Knipshield	do	4.20
9141	F Culvers	do	3.50
9142	C. W. Schimmeal	do	4.20
9143	J Brand	do	4.30
9144	H Clark	do	4.20
9145	W Swingle	do	4.00
9146	Wm Earl	do,	3.00
9147	G Davis	do	4.10
9148	Henry Case	do	4.60
1509	J Dale	do	4.00
·9149	C Rice	do	3.80
9151	C Kemmerer	do	3.70
9152	C Hilcher	do	4.60
9153	F Cox	do	4.50
9154	N Parker	do	8.40
9155	G Gower	do	4.80
9156	S Van Galder	do	4.70
9157	L Pollock	do	4.20
9158	W Hodge	do	3.90
9159	F Demmerow	do	4.70
9160	W Hill	do	3.60
9161	I Brandt	do	3.90
9162	Separator No. 1	. do	0.10
9163	Separator No. 2	do	0.10
9164	Crist Cline	Sharon	8.30
9165	Chas Gile	do	3.80
9166	J Wright.	do	3.90
9167	A B Lowell	do	4.60
9168	A D Lowell	do	3.80
9169	James Sutter	do	3.60
9170	M Langdon	do	8.50
9171	Miller & Bollinger	do	3.60
9172	Mr Higbel	do	3.40
9173	E O Sherman	do	4.30
9174	A A Veoaman	do	3.30
9175	H Foot	do	3.60
9176	R D Lowell	do	
9177	Lemmon & Firm	do	3 80 3.80
9178`	Vesper & Nelson,	do	3.60
9179	Frank Brown	do	3.60
9180	Hurt Lester	do	1
9181	B Piper	do	4.00
9182	H Merrion	do	3.70
9183	D Bollinger	do	4.00
9184	Mike Englehart	do	
9185	Louis Hahn	do	3.70
9185	Andrew Peterdam	do	1
9187	Ira Smith	do	4 00
9188 9189	Phillips & Raymond	do	3.60
שחוש	Harvey Perkins	do	1 0.00

Lab. No.	Name.	P. O. Address.	Amount test.
9191	J O Burton	Sh ron	1 4.4
9192	Frank Smith	do	3.6
9193	Fuller Laushe	do	4.4
9194	J B Dnglehardt	do	4.2
9195	Mrs Lester	do	4.2
9196	Louis Hickok	do	3.0
9197	George Knaub	do	4 2
9198	John Sadd	do	4.0
9199	Blever & Rogh	do	3.8
9200	Hiram Kalph	do	8.8
9201 -	Albert Strake	do	4.0
9202	C Englehardt	do	3.6
9203	J Bollinger	do	3.3
9204	T Kiser	do	4.8
9205	J Livingston	do	3.4
9206	A Prainer	do	3.8
9207	John Waite	do	3.6
9208	Frank Cole	do	4.4
9209	M Nash	do	4.7
9210	Steve Keenan	do	4.0
9211	S Nash	do	4.1
9212	James Barnes	do	3 1
8213	John Shunk	do	4.0
9214	George Piper	[4 4
9215	— Sikes	do	3.4
9216	Geo Adams	do	3.7
9217	Louis Englehardt	do	
9218	L Roth	do	4.1
9219	Dan Langdon	do	8.4
9220	Tom Merritt	do	3.2
9221	J Burton	do	
9222	Burt Mayberry	do	
9223	W Mayberry	do	
9224	Romey Conley	do	
6225	Geo Cramer	do	
9226	T Cramer	do	
9127	Ross Gile	do	
9228	Joe Conley	do	
9229 9230	L Arnold	do	
	A Gunning	do	
9231 9232	Chas. Tompkins	do	
9233	Tom Conley	do	
9234 9234	James Carney	dodo	
9235	Chas. Morris		
9236	George Barst	do	1
9237	H Barst	do	1
9238	J Windermore	do	
9239	Butter milk	do	
9240	Skim milk	do	
9241	W Teute	do	
9242	E Masheir		
9248	C Hammon	do	
9244	F Buss	do	1
	C Draunke		3.

Lab. No.	Name.	P. O. Address.	Amount test.
9246	C Hell.	Milford	3.80
9247	A Moline	do	3.80
9248	C Rogtitz	do	3.20
9249	F Strasburg	do	3.40
9250	H Sandon	do	3.50
9251	E Wilde	do	4.00
9252	A Wilke	do	4.00
9253	Miss Mansfield	do	3.20
9254 9255	F Wendt	do	3.60 3.20
9256	A P Ingalls	do,	4.80
9257	E Ambrose	do	4.00
9258	Aug Lange	do	4.00
9259	C Treloff	do	4.00
9260	A Stelke	do	
9261	C Schroeder	do	3.80
9262	M Prignitz	Lake Mills	3.70
9263	W Marshall	Milford	3.60
9264	W Favis	do	4.50
9265	Thomas Newcomb	do	
9266	Mrs F Newcomb	do	3.40
9267	H Prescott	do	3.90 3.00
9268 9269	H Block F Bamear	do	4.00
9270	L Wandernick	do	3.40
9271	Separator No 1	do	.20
9272	Separator No 2	do	.30
9273	L M Grier	North Hebron	3.80
9274	D Moore	Hebron, Ill	3.80
9275	Henry Arnold	North Hebron	4.20
9276	TH Grier	do	8.80
9277	James Head	do	4.60
9278	C Allen	dodo	4.20 4.20
92 79 9280	L Nickols	do	
9281	John DegmanL H Buel	do	
9282	N Merritt	do	3.80
9283	C Roeder	do	4.20
9284	Skim milk	do	.30
9285	Butter milk	do	.40
9286	FS Keller	Marshall	4.60
9287	C Nelson	do	4.40
9288	W H Porter	doN	3.90
9289	W H Porter	do	4.00 3.70
9290 9291	C Beiterman	do	
9291 9292	C Beiterman	do	4.00
9293	H Meyers	do	3.60
9294	James Hart	do	4.40
9295	John Heber	do	3.80
9296	W Langer	do	3.90
9297	C Dunhardt		
9298	A Radke, Jr		4.00
8299	W Shimmel	do	3.80
9 300	Chas Bruss	do	4.00

Lab. No.	Name.	P. O. Address.	Amount test.
9801	J W Smith	Mashall	8.60
9302	A Steinhouse	do	4.00
9303	CStreich	do	8.80
9304	C Streich	do	3.90
9305	F Ciston	do	3.20
9306 9307	Chas Rothnes	do	3.80 3.20
9308	Herman Buethes.	do	4.00
9309	A Wederward	do	3.90
9310	A Wederward	do	3.80
9311	A Martin	do	3.40
9312	F Hebel	do	2.60
9313	James Capsetin	do	8.90
9314	C Battish	do	3.70
9315	C Battish	do	3.70
9316	Emil Yager	do	3.60
9317	Thos Hart	do	3.30
9318	Thos Hart	do	3.80
9319 9320	Ed Hart	do	3.80 3.70
9321	O Raddis	do	3.70
9322	Frank Longer	do	3.60
9323	Ahmenel Burr	do	3.50
9324	Ahmenel Burr	do	3.20
9335	A Thompson	do	3.80
9326	Clark Cole	do	3.80
9327	Wm Kuhl	do M .	3.80
9228	Wm Kuhl	do	3.80
9329	Jo Bloski	do	3.40
9330	Fred Beske	do	3.60
9331 9339	Frek Beske	do	3.60 4.80
9888	Geo Offerd	.,do	6.20
9334	A Raelki, Jr	do	6.60
9335	Jule Ludking	do	4.20
9336	O P Larenson	do	3.60
9837	O P Larenson	do	4.20
9338	F Warple	do	4.20
9339	J C Knapton	do	4.30
9340	F Pribbernow	do	8.40
9341	W McNeal	do	4.00
9342	D T Brooks	do	3.40 3.70
9343 9344	C Splice	do	3.60
934 4 9345	Bat Furlong	do	3.60
9346	John White	do	4.00
9847	J A Longer	do	3.60
9348	J A Longer	do	3.40
9349	M Porter.	do	4.20
9350	G Baker	do	3.00
9851	G Baker	do	3.00
9352	(H Lackey	do	4.00
9353	Jo Hamshire	do	4.00
9354	Gus Cone	do	3.80
9355	L Tracy	do	4.50

Lab.	Name.	P. O. Address.	Amount
No.			test.
-	·		'
9356	Fred Prense	Marshall	
9357	H H Bichu	do	2.60
9358	H H Bichu	do	
9359	W Byers	do	
9360	Skim milk	do	
9861	Skim milk	do	
9362	Skim milk	do	
9363	Butter milk	do	
9364 9365	Fred Warner	Whitewater	
9366	Joe Doubleday	dodo	
9367	Peacock & Wendorf	do	
9368	Taylor Pieck	do	
9369	F Coil	dò	
9370	Ed Simondson	do	
0371	Fred Morde	do	
9372	T H Warner	do	
9373	Warner & Freeman	do	
9374	James Hackett	do	. 3.40
9375	L McChesney	do	
9376	S Taft	do	
9377	S H Smith	do	
9378	Pete Williams	do	
9379	H Hac ett	do	
9380	J Pollard	do	
9381	T Taft		
9382 9383	Ben Lentz	Bassettdo	
9384	Mrs Nolan Ben Heimling	do	
9385	Butter milk	do	
9386	D Voes	do.	
9387	Anton Schlack	do	
9388	Chas chultt	do	
9389	Wm Bedline	do	
9390	R D Schmidt	do	. 4.00
9391	Wm Banks	do	. 4.20
9392	Dewitt Stanton	do	
9393	G Kirkhoff		
9394	W_Teigle	do	
9395	H Broker		
9396	H Beitham		
9397	Wm Scherve	do	
9398	V C Reynolds		
9399 9400	Wm Cline		
9401	Wm Cline		
9402	H Hallancang		
9403	F Richardson		
9404	F Basselman		
9405	J Elderman		
9406	H Peterson		
9407	Geo Winchel		4.00
9408	F Reynolds		3.40
9409	Geo Pocannich	do	3.60
9410	Skim milk	do	0.10

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Lab.			A
No.	Name.	P. O. Address.	Amount test.
210.			tess.
		· · · · · · · · · · · · · · · · · · ·	,
9411	H Skewes	Union Grove	4.20
9412	C A Brown	Western Union Jct	4.40
9413	Geo Henderson	Eagle	8.60
9114	SS Hace.	do	4.00
9415 9416	John Hardy	Waukesha	8.50
9417	T W West	North Prairie	3.00 3.00
9418	J W Sheare	Waukesha	3.60
9419	E E Hill.	do	3.60
9420	C Werdenhoff	do	4.20
9421	J J Dixon	do	3.60
9422	T C Brown	do	4.30
9423	J Williams	do	6.20
9424	Chas Chapman	do	4.20
9425	BS Winchel	do	4.00
9426	Geo Blackwell	do	6.00
9427	C Munger	do	5.40
9428	Alex Nelson	do	3.40
9429	Thomas Marsh	do	8.60
9430	W Arnott	do	4,40
9431	F. Jordan	do	4.00
9432 9433	T W Morris	do	8.80
9455 94 3 4	J E Jolleppe	Genesee	3.40
9435	Albert Austin	do	3.40 3.60
9436	L Stickles	do	4.60
9437	J C Agatham.	Waukesha	4.20
9438	A A Agatham	Eagle	3.60
9439	Joe Blackwell	do	3.80
9440	R Wilton	do	5.20
9441	J Whittman	Whitewater	4.11
9442	FB Thomas	Eagle	4.20
9443	N R Steel	do	8.80
9444	N Clemons	do	8.90
9445	WE Mayhers	do	4.00
9446	H H Earl.	do	4.60
9447	H Miller	do	3.50
9448 9449	A Grippin	do	3.80 4.00
9449	Wm Walton R Riper	North Prairiedo	4.40
9451	E Williams.	do	4.20
9452	J C West.	do	8.50
9458	J Hintz.	do	4.00
9454	L Hintz	Genesee.	3.70
9455	H Rurrell	do	4.20
9458	D William 3	do	3.80
9457	Weston Bros	do	5.20
9458	J Hughs	do	4.70
9459	— Sheppard	do	8.60
9460	C Honeyozer	do	8.60
9461	J H Morris	do	8.60
9462	H E Evans	do	4.00
9463	D F Rees	do	8.40
9464	J Butter	do	4.40
9465 l	— Jones	do	4.00

Lab. No.	Name,	P. O. Address.	Amount test.
9466	E Wilkins	Genessee	3.30
9467	J Garlow	do	2.80
9468	8 Harrison	do	4.40
9469	F Rahlaff	Oconomowoc	3.60
9470	C Bailey	do	3.80
9471	L Johnson	do	3.60
9472 9473	W Rhode	do	3.30
9474	E Davis. C F Steel.	Ixonia	3.30 3.90
9475	C Nettlesheim.		4 20
9476	R Nettlesheim	do	3 20
9477	L Lavin	do	3.00
9478	L Herlgen	do	4.00
9479	C Majeska	do	3.80
9480	C Classen	do	4.20
9481	M J Wolf	do	4.00
9482	N Morrisey	do	4.90
9483	J'A Griswold	do	4.20
9484	D Cusick	do	4.80
9485	C Booth	Brookfield	3.20
9486	J M Spence	do	4.20
9487	J Hoffman	ا do	4.00
9488	A L White	do	3.80
9489	F Schuntz	do	4.00
9490	H Merron	do	5.00
9491	J Lutzen	do	3.50
9492	C Rees	do	4.00
9493	J E Humphrey	Ixonia	3.50
9494	W S Rowell	Hartland	3.20
9495 9496	A Tenney	do	3.60 3.20
9497	J Leroy F Bartlett	Pewaukee	3.80
9498	F R Eastman	Caledonia	4.60
9499	J Meyer	do	4.20
9500	C Richter.	Brookfield	4.20
9501	D Williams	Genesee	3,60
9502	L Sticks	do	3.80
9503	H O Evans	do	4.30
9504	TS Jones	do	l
9505	L C Smith	do	4.90
9506	H Schultz	do	4.10
9507	H Dodmead	Brookfield	3.60
9508	J Hughs	do	3.70
9509	J Garlon	Genesee	3.60
9510	O Oliver	do	4.10
9511 9512	H B Funk	do	3.60
	C E Smith	North Prairie	3.20
9513 9514	Nick Zeigler	Columbus	3.90 4 50
9514 951 5	T O Edwards	do	3.60
9516	F Schweke.	do	3.70
9517	M Jacobson	Saukville	4.00
9518	A Jacobson	do	8.40
9519	F Reynolds	Cederburg	3.40
9520	George Moulster		

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Lab.	37	D O Address	Amount
No.	Name.	P. O. Address.	test.
0204			1
9521	J A Beik	Hartford	3.00
9522	D Reik	do	4.60
9523 9524	C Hell	Schillingsville	3.60
952 4 9525	Geo Rouk	Germantown	4.00 3.80
9526	G Buscher	Germantown	
9527	J Kissinger A G Young	Rubicon	4.50
9528	LFiesberg	Cottage Grove	
9529	O Henderson	do	
9580	A Gottscheller	do	3.40
9531	P Simonson	do	3.70
9532	P Henderson	do	3.60
9533	T Castovest		
9534	O Quale.	do	3.40
9535	J Doustadt	do	
9536	C Hammond	do	3,60
9537	O Lovvle.	do	4.70
9538	Mrs Mickelson	do	4.70
9539	A Castavert	do	3.60
9540	Mrs Everson	do	3.60
9541	H Chriatianson	do	4.00
9542	Skim Milk	do	0.30
9543	Skim Milk	do	0.40
9544	John Rood	Tibbetts	3.90
9545	Wm Rosenhour	do	3.40
9546	E Schinke	do	3.90
9547	H Davis	do	
9548	Sam Foster	do	
9549	Sam Foster	do	
9550 9551	Tom Davis	do	
9552	Wm Bray	do do	
9553	John Tabin	do do	
9554	Wm Tabin	dodo	
9555	S E Weiers	do	
9556	E Donaldson	do	4.50
9557	J Knuteson	do	1 1111
9558	C Clemons.	do	
9559	C Clemons	do	
9660	C Masher	do	
9561	C Masher	do	3.30
9562	J Gilbert	do	3 40
9563	Steve Russel	do;	
9564	Mrs Stearns	do	
9565	H C Welch	do	
9566	Henry Welch	do'	
9567	W Bingham	do	
9568	John Parsons	do	
9569	John Parsons	do	
9570	Henry August	do	
9571	Thomas Fountain	do do	
9572	Chas Brag		
9573	Wm Ellis		1
9574	Front Shrilds		
9575	A Harrison	do	4.00

Lab. No.	Name.	P. O. Address.	Amount test,
9576	S Harrington	Tibbitts	3.60
9577	Skim milk	Tibbitts	0.10
9578	J Blank	Millard	3.40
9579	G Barker	do	3.80
9580	M Owens	do	4.00
9581	J Matheson	do	$ $ $ $ 3.20
9582	L G Summers	do	3.50
9583	E H Field	do	8.10
9584	J Penner	do	8.20
9585	W Gage	qo	3.80
9586	Skim milk	do	0.10
9587	F C Weaver	do	8.80
9588	H Barker	do	3.00
9589 9590	E J Thomas	do	3.60
9590 9591	W T Thomas	do	3.20
9592	J Duncomb	do	3.80
9593	E S Bloomer	do	8.20
9594	C Donaldson	do	8.40
9595	O W Robb.	do	3.80
9596	W Count.	do	8.60 3.20
9597	E Malon	do	3.20
9598	E Weaver	do	3.40
9599	B Parish	do	8.20
9600	Mrs A Begelow	do	4.40
9601	H Fenner	do	8.50
9602	H Messersmidt	do	8.60
9603	A Hanson	do	3.20
9604	F Begelow	do	3.40
9605	A L Morrison	do	4.20
96 06	Buttermilk	do	0.20
9607	D Harris	do	3.40
9608	A L Peterson	do	3.40
9609	G Bappold	do	8.30
9610	R H Thomas	co	8.80
9611	G Peirce.		3.60
9612	J Edwards	do	3.80
9613	Skim milk	do	g.50
9614	G Kerchhapper	do	4.00
9615	J Schultz		3.90
9616	A Radke	do	8.90
9617	C Bretzman	do	3.90
9618 9619	Frank Fenner	do	4.10
9619	F Kassube	do	3.80
9621	Aug Latsch	do	4.00
9622	John Korth	. do	3.60
9623	Wm MeisnerL Barfknecht	do	
9624	Wm Kuhl	do	4.40
9625	Aug Mandt.	do	4.00
9626	Wm Schultz	do	8.70 4.60
9527	Wm Barfknecht	do	2.80
9528	Louis Wilke	do	4.20
9629	Pred Karnstadt	do	8.10
9680	Carl Steinhurst	do	

9632 C Machrke. do. 38 9633 W Batkrutz do. 49 9634 Gus Helpap do. 44 9635 Aug Keltch do. 38 9636 D Lampbal do. 38 9637 Herman Sein. do. 38 9638 Carl Schmidt do. 38 9639 Aug Walein. do. 38 9639 Aug Walein. do. 38 9640 Aug Gretzmaker do. 38 9641 H Breibkrantz do. 44 9642 Fred Strasburg do. 44 9643 Carl Karth do. 44 9644 C Hrown do. 44 9645 C Hrown do. 44 9646 C Burgess. do. 44 9647 Aug Bshern do. 38 9648 John Newpert do. 38 9648 John Newpert do. 48 9650 Frank Karth do. 48 9651 Elias Taylor do. 48 9652 Rob Eutwhistle do. 44 9655 Rob Eutwhistle do. 44 9655 Rob Eutwhistle do. 45 9656 Veppack Bros do. 46 9657 Skim milk do. 47 9658 Skim milk do. 38 9668 Gurt Schultz do. 38 9667 Aug Nadler do. 38 9668 C roganschutes do. 38 9669 Fred Wendt do. 38 9670 Skim milk do. 38 9671 Skim milk do. 38 9672 D Mayer do. 38 9673 Skim milk do. 38 9674 Skim milk do. 38 9675 Skim milk do. 38 9676 Fred Wendt do. 38 9677 Skim milk do. 38 9677 Skim milk do. 38 9678 Skim milk do. 38 9679 Butter milk do. 38 9679 Butter milk do. 38 9670 Respect do. 38 9671 Skim milk do. 38 9672 D Mayer do. 38 9673 Skim milk do. 38 9674 Aug Waber do. 38 9675 Skim milk do. 38 9676 Skim milk do. 38 9677 Skim milk do. 38 9678 Skim milk do. 38 9679 Butter milk do. 38 9679 Butter milk do. 38 9670 Ruthford do. 38 9682 Aug Bartholtz do. 38 9683 Aug Waber do. 38 9684 Winders do. 38 9685 W Finders do. 38	Lab. No.	Name.	P. O. Address.	Amount test.
9633 W Batkrutz				4.70
9634 Gus Helpap				3.10
9835		W Batkrutz	do	4.10
9636 D Lampbal				4.00
9687 Herman Sein				3 60
9638 Carl Schmidt do 8 9639 Aug Walein do 8 9640 Aug Gretzmaker do 3 9641 H Breibkrantz do 4 9642 Fred Strasburg do 4 9643 Carl Karth do 4 9644 Wood & Mlehrke do 4 9645 C Brown do 4 9646 C Burgess do 4 9647 Aug Bshern do 3 9648 John Newpert do 4 9649 C W Berger do 4 9650 Frank Karth do 3 9651 Elias Taylor do 4 9652 Rob Eutwhistle do 4 9653 Carl Krath do 4 9654 H Melcon do 4 9655 Karth do 4 9657 Skim milk do 4 9657 Skim milk do 4 9658 Skim milk do 4 9658 Skit milk do 3 9660 Fred Karth do 3 9660 Fred Karth do 3 9661 Aug Arndt do 3 9663 Guet Schultz do 3 9664 Andrew Thayer do 3 9665 Aug Nadler do 3 9667 Aug Nadler do 3 9667 Aug Nadler do 3 9670 Alex Buchanan do 3 9671 Carl Garl Garl Garl Garl Garl Garl Garl G		D Lampbal		3.80
9839 Aug Walein		Herman Sein		3.60
9840 Aug Gretzmaker do		Carl Schmidt	do	3.00
9641 H Breibkrantz		Aug Wallein	do	8.90
9642 Fred Strasburg do 4 9643 Carl Karth do do 4 9644 Wood & Mlehrke do 4 9645 C Frown do 4 9646 C Burgess do 4 9647 Aug Bshern do 4 9648 John Newpert do 4 9650 Frank Karth do 3 9651 Elias Taylor do 4 9652 Rob Eutwhistle do 4 9653 Frank Karth do 4 9654 H Mekon do 4 9655 Veppack Bros do 4 9655 Skim milk do 3 9657 Skim milk do 4 9658 Skim milk do 4 9658 Skim milk do 4 9659 Butter milk do 4 9660 Gust Schultz do 3 9661 Aug Arndt do 3 9662 W Panxetes do 3 9663 W Leakerman do 3 9664 Andrew Thayer do 3 9665 Louis Ecx do 3 9667 Aug Nadler do 3 9668 C + oganschutes do 3 9670 Alex Buchanan do 3 9671 Carl Gerevick do 3 9672 Skim milk do 3 9673 D Mayer do 3 9674 Garl Gerevick do 3 9675 Skim milk do 3 9676 Fred Wendt do 3 9677 Skim milk do 3 9677 Skim milk do 3 9679 Butter milk do 3 9677 Skim milk do 3 9679 Butter milk do 3 9679 Butter milk do 3 9677 Skim milk do 3 9677 Skim milk do 3 9679 Skim milk do 3 9679 Butter milk do 3 9679 Skim milk do 3 9679 Butter milk do 3 9679 Skim milk do 3 9679 Butter milk do 3 9679 Butter milk do 3 9679 Butter milk do 3 9689 GRuthford do 3 9689 Aug Barcholtz do 3		Aug Gretzmaker	do	3.60
9643		End Street		4.80
9844 Wood & Mlehrke do		Cont Cont		4.20
9645 C Brown do. 4 9646 C Burgess do. 4 9647 Aug Bshern do. 3 9648 John Newpert do. 4 0649 C W Berger do. 4 9650 Frank Karth do. 3 9651 Elias Taylor do. 4 9652 Rob Eutwhistle do. 4 9653 Carl Krath do. 4 9653 Carl Krath do. 4 9654 H Melson do. 4 8655 A Bartel do. 3 9656 Veppack Bros do. 4 9657 Skim milk do. 4 9658 Skim milk do. 4 9659 Skim milk do. 3 9660 Fred Karth do. 3 9661 Aug Arndt do. 3 9662 W Panxetes do.				4 00
9646 C Burgess do. 4. 9647 Aug Bshern do. 38 9648 John Newpert. do. 4. 9649 C W Berger do. 4. 9650 Frank Karth do. 3. 9651 Elias Taylor do. 4. 9652 Rob Eutwhistle do. 4. 9653 Carl Krath do. 4. 9654 H Melson do. 4. 8655 A Bartel do. 3. 9656 Veppack Bros do. 4. 9657 Skim milk do. 4. 9658 Skim milk do. 9660 Fred Karth do. 3. 9660 Fred Karth do. 3. 9660 Fred Karth do. 3. 9661 Aug Arndt do. 3. 9662 W Panxetes do. 3. 9663 Gut Schultz do. 3. 9664 Andrew Thayer do. 3. 9665 W Leakerman do. 3. 9666 Louis Ec≺ do. 3. 9667 Aug Nadler do. 3. 9668 C + toganschutes do. 3. 9667 Aug Nadler do. 3. 9667 Aug Nadler do. 3. 9671 Carl Pervertz do. 3. 9672 D Mayer do. 3. 9673 Skim milk do. 3. 9674 Carl Genevick do. 3. 9675 Fred Wendt do. 3. 9676 Fred Wendt do. 3. 9677 Skim milk do. 3. 9678 Skim milk do. 3. 9679 Butter milk do. 3. 9679 Skim milk do. 3. 9679 Skim milk do. 3. 9679 Butter milk do. 3. 9680 Aug Waber do. 3. 9681 Aug Waber do. 3. 9682 Aug Barcholtz do. 3. 9683 W Finders do. 3. 9688 Fred Wendt do. 3. 9688 Aug Waber do. 3. 9688 W Finders do. 3.				4.40
9647 Aug Bshern do. 3 9648 John Newpert do. 4 9650 Frank Karth do. 3 9651 Elias Taylor do. 4 9652 Rob Eutwhistle do. 4 9654 H Melson do. 4 9655 Skim mik do. 3 9656 Skim milk do. 4 9657 Skim milk do. 9 9658 Skim milk do. 9 9660 Fred Karth do. 3 9661 Aug Arndt do. 3 9662 W Panxetes do. 3 9664 Andrew Thayer do. 3 9665 Aug Nadler do. 3 9666 Louis Ec do. 3 9666 C + oganschutes do. 3 9667 Aug Nadler do. 3 9668 C + oganschutes do. 3 9667 C - Aug Nadler do. 3 9668 C - Skim do. 3 9669 J Clas man do. 3 9670 Alex Buchanan do. 3 9671 Carl Pervertz do. 3 9672 D Mayer do. 3 9673 Skim milk do. 3 9674 Carl Genevick do. 3 9675 Skim milk do. 3 9675 Skim do. 3 9676 Fred Wendt do. 3 9677 Skim do. 3 9678 Skim do. 3 9679 Butter milk do. 3 9680 G Ruthford do. 3 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Aug Waber do. 3 9685 Aug Barcholtz do. 3 9688 Aug Wathford do. 4 9688 Aug Wrinders do. 3 9688 Aug Wrinders do. 3 9688 Aug Wrinders do. 3 9688 Aug Wathford do. 4 9689 Aug Morris Ruthford do. 4 9680 Aug Wathford do. 4 9684 Aug Wrinders do. 3 9688 Aug Wrinders do. 3 9688 Aug Wrinders do. 3 9688 Aug Wrinders do. 3				4 40
9648 John Newpert				4.10 3 00
0649 C W Berger do. 4 9650 Frank Karth do. 3 9651 Elias Taylor do. 4 9652 Rob Eutwhistle do. 4 9653 Carl Krath do. 4 9654 H Mekon do. 4 8655 A Bartel do. 3 9656 Veppack Bros do. 4 9657 Skim milk do. 4 9658 Skim milk do. 4 9657 Skim milk do. 4 9658 Skim milk do. 4 9658 Skim milk do. 3 9660 Fred Karth do. 3 9661 Aug Arndt do. 3 9662 W Panxetes do. 3 9663 Gust Schultz do. 3 9664 Andrew Thayer do. 3 9665 W Leakerman do. <td></td> <td></td> <td></td> <td>4.00</td>				4.00
9650 Frank Karth.		C. W. Berger		4.00
9651		Fronk Korth		3.90
9652 Rob Eutwhistle do. 4. 9653 Carl Krath do. 4. 9654 H Melson do. do. 9655 A Bartel do. 3. 9656 Veppack Bros do. do. 9657 Skim milk do. 9658 Skim milk do. 9659 Butter milk do. 9660 Fred Karth do. 9661 Aug Arndt do. 9662 W Panxetes do. do. 9663 Gust Schultz do. 9664 Andrew Thayer do. 3. 9665 W Leakerman do. 3. 9666 Louis Ec≺ do. 3. 9667 Aug Nadler do. 3. 9669 J Classman do. 3. 9669 J Classman do. 3. 9670 Alex Buchanan do. 3. 9671 D Mayer do. 3. 9672 D Mayer do. 3. 9673 D Mayer do. 3. 9674 Carl Genevick do. 3. 9675 M Wallace do. 3. 9677 Skim milk do. 3. 9678 Skim milk do. 3. 9679 Gruthford do. 3. 9681 Aug Waber do. 3. 9682 Aug Barcholtz do. 3. 9683 W Finders do. 3. 9684 Morris Ruthford do. 4. 9688 Worris Ruthford do. 4. 9688 Morris Ruthford do. 4.		Fling Towlor		
9653				4.30
9654				4 40
8655 A Bartel do. 3. 9656 Veppack Bros do. 4. 9657 Skim milk do. 4. 9658 Skim milk do. 4. 9658 Skim milk do. 3. 9660 Fred Karth do. 3. 9661 Aug Arndt do. 3. 9662 W Panxetes do. 4. 9663 Gust Schultz do. 3. 9664 Andrew Thayer do. 3. 9665 W Leakerman do. 3. 9666 Aug Nadler do. 3. 9667 Aug Nadler do. 3. 9668 C boganschutes do. 3. 9669 J Class man do. 3. 9670 Alex Buchanan do. 4. 9671 D Mayer do. 3. 9672 D Mayer do. 3. 9673 M Wallace				4.30
9656 Veppack Bros do. 4. 9657 Skim milk do. 4. 9658 Skim milk do. 9759 Butter milk do. 9660 Fred Karth do. 9661 Aug Arndt do. 9662 W Panxetes do. do. 9664 Andrew Thayer do. 3. 9665 W Leakerman do. 3. 9666 Louis Ec≺ do. 3. 9666 Aug Nadler do. 3. 9667 Aug Nadler do. 3. 9669 J Class man do. 3. 9670 Alex Buchanan do. 3. 9671 Carl Pervertz do. 3. 9672 D Mayer do. 3. 9673 D Mayer do. 3. 9674 Carl Genevick do. 3. 9675 M Wallace do. 3. 9677 Skim milk do. 3. 9678 Skim milk do. 3. 9679 Skim milk do. 3. 9671 Skim milk do. 3. 9672 Skim milk do. 3. 9673 Butter milk do. 3. 9674 Skim milk do. 3. 9675 Skim milk do. 3. 9677 Skim milk do. 3. 9688 Butter milk do. 3. 9689 G Ruthford do. 3. 9681 Aug Waber do. 3. 9682 Aug Barcholtz do. 3. 9683 W Finders do. 3. 9684 Morris Ruthford do. 4.				
9657 Skim milk do 4 9658 Skim milk do 8 9759 Butter milk do 9 9660 Fred Karth do 3 9661 Aug Arndt do 3 9662 W Panxetes do 4 9663 Gust Schultz do 3 9664 Andrew Thayer do 3 9665 W Leakerman do 3 9666 Louis Ec do 3 9667 Aug Nadler do 3 9668 C boganschutes do 3 9667 Alex Buchanan do 3 9670 Alex Buchanan do 3 9671 Carl Pervertz do 3 9672 D Mayer do 3 9673 D Mayer do 3 9675 M Wallace do 3 9677 Skim milk do 3<				4.20
9658 Skim milk do. 9759 Butter milk do. 9660 Fred Karth do. 9661 Aug Arndt do. 3 9662 W Panxetes do. 4 9663 Gust Schultz do. 3 9664 Andrew Thayer do. 3 9665 W Leakerman do. 3 9666 Louis Ecx do. 3 9667 Aug Nadler do. 3 9668 C t oganschutes do. 3 9669 J Clas man do. 3 9670 Alex Buchanan do. 3 9671 Carl Pervertz do. 3 9672 D Mayer do. 3 9673 D Mayer do. 3 9674 Carl Genevick do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 3 <t< td=""><td></td><td></td><td></td><td>4.40</td></t<>				4.40
9759 Butter milk do. 9660 Fred Karth do. 9661 Aug Arndt do. 9662 W Panxetes do. 4 9663 Gust Schultz do. 3 9664 Andrew Thayer do. 3 9665 W Leakerman do. 3 9666 Louis Ecc do. 3 9667 Aug Nadler do. 3 9668 C + loganschutes do. 3 9669 J Class man do. 3 9670 Alex Buchanan do. 4 9671 D Mayer do. 3 9672 D Mayer do. 3 9673 D Mayer do. 3 9674 Carl Genevick do. 3 9675 Fred Wendt do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 3 9678 Skim milk do. 3 9679 Butter milk do. 3 9680 G Ruthford do. 3 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4 9675 do. 3 9688 W Finders do. 3 9688 W Finders do. 3 9688 W Finders do. 3 9689 do. 3 9684 Morris Ruthford do. 4 9685 do. 3 9686 do. 3 9686 do. 3 9688 W Finders do. 3 9688 W Finders do. 3 9688 Worris Ruthford do. 4 9680 do. 4 9681 do. 4 9684 Morris Ruthford do. 4 9686 do. 3 9688 W Finders do. 4 9688 Morris Ruthford do. 4 9688 Morris Ruthford do. 4				.20
9660 Fred Karth .do. .9661 Aug Arndt .do. .3 .9662 .W Panxetes .do. .4 .9663 .Gust Schultz .do. .3 .9664 Andrew Thayer .do. .3 .9665 W Leakerman .do. .3 .9666 .Douis Ec. .do. .3 .9667 .Aug Nadler .do. .3 .9668 .C toganschutes .do. .3 <		Butter milk		.20
9661		Fred Karth		.40
9662 W Panxetes. do. 4 9663 Gust Schultz. do. 3 9664 Andrew Thayer do. 3 9665 W Leakerman do. 3 9666 Louis Ecx do. 3 9667 Aug Nadler do. 3 9668 C boganschutes. do. 3 9669 J Classman do. 3 9670 Alex Buchanan do. 4 9671 Carl Pervertz do. 3 9672 D Mayer do. 3 9673 D Mayer do. 3 9674 Carl Genevick do. 3 9675 M Wallace do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 3 9678 Skim milk do. 3 9679 G Ruthford do. 3 9680 G Ruthford <td< td=""><td>9661</td><td></td><td></td><td>3.80</td></td<>	9661			3.80
9663 Gust Schultz do. 3 9664 Andrew Thayer do. 3 9665 W Leakerman do. 3 9666 Louis Ecx do. 3 9667 Aug Nadler do. 3 9668 C toganschutes do. 3 9669 J Class man do. 3 9670 Alex Buchanan do. 4 9671 Carl Pervertz do. 3 9672 D Mayer do. 4 9673 D Mayer do. 3 9674 Carl Genevick do. 3 9675 M Wallace do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 3 9678 Skim milk do. 3 9679 Butter milk do. 3 9680 G Ruthford do. 3 9681 Aug Waber d	9662			4.20
9664 Andrew Thayer do. 3 9665 W Leakerman do. 3 9666 Louis Ecc. do. 3 9667 Aug Nadler do. 3 9668 C hoganschutes do. 3 9669 J Class man do. 3 9670 Alex Buchanan do. 4 9671 D Mayer do. 3 9672 D Mayer do. 3 9673 D Mayer do. 3 9674 Carl Genevick do. 3 9675 M Wallace do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 3 9678 Skim milk do. 3 9680 G Ruthford do. 3 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9684 Morris Ruthford d	9663			3.50
9665	9664			3.40
9666 Louis Ec do 3 9667 Aug Nadler do 3 9668 C boganschutes do 3 9669 J Clas man do 3 9670 Alex Buchanan do 4 9671 Carl Pervertz do 3 9672 D Mayer do 4 9673 D Mayer do 3 9674 Carl Genevick do 3 9675 M Wallace do 3 9676 Fred Wendt do 3 9677 Skim milk do 3 9678 Skim milk do 3 9679 Butter milk do 3 9680 G Ruthford do 3 9681 Aug Barcholtz do 3 9682 Aug Barcholtz do 3 9684 Morris Ruthford do 4	9665	W Leakerman		3.20
9667 Aug Nadler do. 3 9668 C toganschutes do. 3 9669 J Clas man. do. 3 9670 Alex Buchanan do. 4 9671 Carl Pervertz do. 3 9672 D Mayer do. 4 9673 D Mayer do. 3 9674 Carl Genevick do. 3 9675 M Wallace do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 3 9678 Skim milk do. 3 9679 Butter milk do. 3 9680 G Ruthford do. 3 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4	9666	Louis Eck	do	3.50
9668 C Łoganschutes do 3 9669 J Class man do 3 9670 Alex Buchanan do 4 9671 Carl Pervertz do 3 9672 D Mayer do 4 9673 D Mayer do 3 9674 Carl Genevick do 3 9675 M Wallace do 3 9676 Fred Wendt do 3 9677 Skim milk do 3 9678 Skim milk do 3 9679 Butter milk do 3 9680 G Ruthford do 3 9681 Aug Waber do 3 9682 Aug Barcholtz do 3 9683 W Finders do 3 9684 Morris Ruthford do 4	9667	Aug Nadler	do	3.40
9669 J Class man .do .3 9670 Alex Buchanan .do .4 9671 Carl Pervertz .do .3 9672 D Mayer .do .4 9673 D Mayer .do .3 9674 Carl Genevick .do .3 9675 M Wallace .do .3 9676 Fred Wendt .do .3 9677 Skim milk .do .3 9678 Skim milk .do .3 9679 Butter milk .do 9680 G Ruthford .do 9681 Aug Waber .do 9682 Aug Barc holtz .do 9683 W Finders .do 9684 Morris Ruthford .do	966 8	C Loganschutes		3,66
9671		J Claseman	do	3.20
9672 D Mayer do. 4 9673 D Mayer do. 3 9674 Carl Genevick do. 3 9675 M Wallace do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 8 9678 Skim milk do. 9 9679 Butter milk do. 9 9680 G Ruthford do. 9 9681 Aug Waber do. 3 9682 Aug Barc holtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4			do	4.00
9673 D Mayer do. 3 9674 Carl Genevick do. 3 9675 M Wallace do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 3 9678 Skim milk do. 3 9679 Butter milk do. 9680 G Ruthford do. 3 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4		Carl Pervertz	do	3.20
9674 Carl Genevick do. 3 9675 M Wallace do. 3 9676 Fred Wendt do. 3 9677 Skim milk do. 8 9678 Skim milk do. 9 9679 Butter milk do. 9 9680 G Ruthford do. 9 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4			do	4.20
9675 M Wallace .do. 3 9676 Fred Wendt. .do. 3 9677 Skim milk. .do. 8 9678 Skim milk. .do. .do. 9679 Butter milk .do. .do. 9680 G Ruthford .do. .do. 9681 Aug Waber .do. .do. 9682 Aug Barcholtz .do. .do. 9683 W Finders .do. .do. 9684 Morris Ruthford .do. .do.		D Mayer	do	3 80
9676 Fred Wendt. do. 3 9677 Skim milk. do. 8 9678 Skim milk. do. 9 9679 Butter milk do. 9 9680 G Ruthford do. 9 9681 Aug Waber do. 3 9682 Aug Barc holtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4		Carl Genevick	do	8.80
9677 Skim milk. do. 3 9678 Skim milk. do. 9679 Butter milk do. 9680 G Ruthford do. 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4		M Wallace	do	8 60
9678 Skim milk do. 9679 Butter milk do. 9680 G Ruthford do. 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4				3.30
9679 Butter milk do. 9680 G Ruthford do. 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4				8.70
9680 G Ruthford do. 9681 Aug Waber do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4		SKIM MIIK	do	.20
9681 Aug Waber .do. 3 9682 Aug Barcholtz do. 3 9683 W Finders do. 3 9684 Morris Ruthford do. 4		Dutter milk	do	.20
9682 Aug Barcholtz				.20
9683 W Finders do				3.90
9684 Morris Ruthforddo				3 80
4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4. 4		Morris Duthford	do	3.70
9685 Robt Alexander		Robt Alexander	do	4.00 3.10

Lab. No.	Name.	P. O. Address.	Amount test.
9686	Joe Ruthford	Lake Mills	3.40
9687	Dan Scott	do	4.00
9688	Ed Neff	do	3.60
9689	Eph Wilson	do	8.80
9690	M Engsbury	do	4.40
9691	W Wickets	do	8.50
9692	L Stetson	do	4.20
9698 9694	W Sheppler	do	8.50
969 5	L Bethke	do	8.00
9696	Emil Kobinson	do	4.10 3.60
9697	Charles M Barnes	Ixonia	3.70
9698	Charles M Barnes	doN.	3.60
9699	Butter milk	Slades Corners.	.60
9700	Slade & White	do	4.00
9701	J Amborn	do	4.00
9702	Chas Rosch	do	3.80
9703	Fred Funk	do	3.90
9704	T Lemerhart	do	4.00
9705	L Bushman	do	4.20
9706	A Gauswent	do	4.00
9707	Wm Kahls	do	4.50
9798	Geo Remer	do	3.80
9709	F Breyer		4.10
9710 9711	T Buchalz	do	8.70
9712	Frank Fink	do	4.00
9713	Mrs Timmie	do	4.20
9714	A C Hessing	do	3.50 2.00
9715	S Schultz	do	4.50
9716	George Smith	do	
9717	John Radams	do	4.00
9718	Aug Swantz	do	4.00
9719	G Rosenhaue	do	8.50
9 720	A Brander	do	8.80
9721	Herman Schultz	do	3.20
9722	Wm Oldenburg	do	3.80
9723	Chas Kaddotz	do	8.60
9724	Wm Newman	do	3.80
9725 9726	Wm Frahm	do	3.50
9726 9727	Chas Lemmerhardt	do	2.80
9728	H Kules	do	5.00
9729	A FayL Fay	do	4.10
9730	C Dyson	do	8.80 4.10
9781	I H Newberg	do	3.60
9732	Mrs Peirce	do	3.80
9733	J Rabers	do	4.00
9784	D Miller	do	3.60
9735	R W Crane	do	4 40
9736	Wm Schultz	do	4.00
9737	′H Gebke	do	4.20
9738	Fred Burk	do	4.00
9789	Ernest Burk	do	4.40
9740	Chas Steffen	[, do	5.20

Lab. No.	Name.	P. O. Address.	Amount test.
9741	W Hanke	Slades Corners	3.8
9742	Frank Kromk	do	4.2
9743	William Badunz	do	3.4
9744	Henry Bosse	do	4.2
9745	Ben Kresken	do	3.8
9746	J Keikbush	do	3.4
9747	H David	do	4.1
9748	Ben Roanhouse	do	4.1
9749	Ben David	do	8.4
9750	Ben Snider	do	8.4
9751	Chas Vorbagle	do	4.0
9752	Chas Brurh	do	3.6
9753	J Walberg	do	4.0
9754	Wm Swantz	do	8.8
9755	South Separator	do	.2
975 6	North Separator	do	.4
9757	Henry Kruth	Tests Corners	3.7
9758	Julius Kuchel	do	
9759	H Balte	do	4.0
9760	A Reisse	do	3.6
9761	John Nieman	do	4.4
9762	Chas Walman	do	4.5
9763	A Schalonda	do	3.8
9764	Sam Bass	do	4.2
9765 9766	Martin Bas	do	8.8 4.1
9767	Ernest Bass	do	8.9
9768	Wm Ludwig	do	4.0
9769	John Schmidt	dodo	3.8
9770	Henry Muele	do	8.9
9771	John Eckstein	do	
9772	A Longhney.	do	4.
9778	John Ladwig	do	
9774	P Phillips	do	3.
9775	Mrs Goff	do	3.
9776	James Burns	do	
9777	C Smith		4.
9778	Chris Scheel	do	4.
9779	Wm Martin	do	3.
9780	John Burns	do	5.
9781	Louis Pelman	do	4.
9782	Le Holz	do	
9783	R Holz	do	3.
9784	Ira Cobb	do	
97>5	James Smith	do	
9786	P Grass	do	
9787	T Jacobson	Elkhorn	
9788	C S Brabazon	do	
9789	C North		
9790	W Belton		4.
9791	G Willey		
9792	John Oslock	do	
9793	G Peacock		
9794	L V Flitcroft	dodo	3.

Lab. No.	Name.	P. O. Address,	Amount test.
9896	C Wilson	Elkhorn	4.40
9897	C Heiss	do	3.20
9698	8 Kenney	do	4.10
9899	T Peck	do	4,40
9 800.	Chas Deasing,	do	4.30
9801	R Nelson	do	4.00
9802	G White	do	3.60
9803	C W Hickson	do	4.00
9504	J S Oleson	do,	4.40
9805	J Nelson	do	8.80
9806	A Mayer	do	3.40
9807	J R Brabazon	do	4.00
9803 9809	O Larson	do	4.00
9810	J McDonough	do	4.00 3.70
9811	L CoblemanO Salverson	do	3.70 8.60
9812	J Granzo.	do	4.00
9813	J Shepheard	do	4.20
9814	J Miller	do	3.10
6815	A D Smith	do	4.20
9816	C Williams.	do	4.00
9817	P Hand	do	3.80
9818	J A strong	do	8.60
9819	J A Strong.	do	4.20
9820	Fred Smith	do	3 00
9821	E Wilson	do	3.80
9822	U Wilson	do	4.10
9823	N Heist	do	4.10
9824	N Kettleson	do	4.20
9825	O Kettleson	<u></u>	3.60
9826	John Sanders	do	8 70
9827	P Belton	do	4.30
9828	O Jacobson	do	3 90
9829	Mrs Butterheart.	do	3.60 4.20
9830 9831	D White		3.50
9832	Mrs Babcock	do	4.40
9833	A Oleson	do	4.10
9834	John Connoughton	do	8.40
9835	E Donaldson	do	4.20
9836	L Johnson	do	3.50
9837	Skim milk	do	.80
9838	Butter milk	do	.50
9839	JH Karnes	Woolworth	3.80
9840	Frank Gethen	do	3.80
9841	Frank Haskins	do	8.80
9842	W C Crosby	do	4.00
9843	H Holbrook	do	8.70
9844	M C Kelley	do	4.20
9845	Aug Wienk	do	8.40
9846	J S Hill	do	4.40
9847	'R Smith	do	8.70 8 70
9848 9849	W W Gleason		8.60
9850	P Gleason		4.10
4000	1 AGO THREE BOTT	,uv	1 2170

Lab. No.	Name.	P. O. Address.	Amount test.
9851	Moses Achen	Woodsworth	4.00
8852	Frank Weinke	do	3.60
9853	Frank Tourtelotte	do	8.90
9854	Geo Davis	do	3.20
9855	D E Pierce	do	8.20
9856	G Gates	do	4.20
9857	John Fox	do	4.20
9858	Mrs Rampestkee	do	4.00
9859	John Mard	do	8.90
9860	B Tourtelotte	do	4 20
9861	M D Burt	do	4.00
9862	A Walker.	do	4.20
9863	Skim milk	do	l
9864	Butter milk	do	
9865	CH Waldo	do	
9866	Frank Stuat	do	4.00
9867	Frank Stuat	do	4.40
9868	Butter milk	Utica	0.20
9369	HH Bjoyn	do	8.40
9870	H F. Lewis	do	
9871	H N Honge	do	8.50
9872	H N Honge	do	8.60
9878	K Odden	do	8 10
9874	H A Bjon	do	3.60
9875	J Lenoas	do	3 40 3.80
987 6 9877	ASwan	do	4.00
9878	J C Hansen O Bargaurd	do do,	4.00
9879	O O Floam	do	4 00
9880	Mrs Koste	do	4.40
9881	A E Lee	do	8.30
9892	B J Borgie	do	8,60
9883	T Cleven	do,	4.00
9884	J Borwan	do	3.80
9485	T E Smithback	do	3.80
9886	D B Coon	do	8.30
9887	H Hove	do	8.80
9888	O Harvey	do	8.80
9889	PPaulson	do	3.10
9890	M Oleson	do	2.80 4.00
9891 9892	G E Nassett	do	4.00
9893	J O Faron C H Foodalls	do	4.20
9894	G Gulickson	do	3.20
9895	F Smithback.	do	3.80
9896	N M Erdall.	do	8.80
9897	P Larson	do	4.40
9898	S S Egan	do	3.20
9899	J S Solheim.	do	
9800	Skim milk	do	0.10
9801	Skim milk	do	0.40
9802	L G Holton	do	3.20
9803	J J Johnson	do	3.20
9804	G G Knasta	do	3.20
9805	E E Sands	do	3.60

Lab. No.	Name.	P. O. Address.	Amount test.
9906	J Ammonson	Utica	3.60
9907	A Tilleson	do	2.80
9908	J Hulsither	dv	3.00
9909	J Lee	do	4.60
9912	Butter milk	do	.10
9911 9912	Frank Biehn	Somers	3.80
9913	Jake Windish	do	4.10
9914	Jacob Kreucher	do	3.80 3.80
9915	George Creucher	do	4.00
9016	H Stocklenworth	do	4.00
9923	Mat Schlitz.	do	3.60
9934	A Kreak Sr	do	3.80
9925	A Kreak Jr	do	8.80
9926	Doorflinger Bros	do	8.60
9927	James Gray	do	3.80
9928	Philip Horning	do	4.30
9929	H L Bullaman	do	8.60
9930	Henry Behn Jr	do	3.90
9931	George Price	do	3.50
9932 9983	Richarp Price	do	3.40 3.60
9984	John Funk F Boyer	do.	3.50
9935	C Prance	do	3.40
9936	John Pfeifer	do	3.60
9937	W W Holloway	do	8.70
9938	Mike White	do	3.60
9949	Mrs Williams	do	3.90
9940	A Vendermoon	do	4.40
9941	Philip Herne	do	8.50
9942	Geo McGill	do	8.80
9918 9944	Philip Windish	do	3.60 3.50
9944 9345	Tom Nolan	do	4.20
9946	Matt Neu.		3.90
99 7	Theo Funk	do	8.70
9948	J D Dekak	do	5.20
9949	C E Huesdorf	do	8.10
9950	Price Bailey	do	3 30
9651	Philip Durscal	do	4.00
9953	John_Mick	do	4.20
9953	Mrs Fonk	do	3.60
9954	A Reidenback	do	3.90
0955	Chas Herman		4.00
8056 9957	Pat Kearnes	do	3.90
9957 9958	E Hanson	do	4.00 4.40
995 9	Grant Billiman	do	7 - 7 - 2
9960	A S Bullman	do	7.11
9961	James Murry	do	3.60
9962	Skim milk	do	0.50
9963	Stim milk	do	0.20
9964	Butter milk	do	0.20
9865	P A Flower	Pearceville	5.20
8966	B Dushbeck	do	l 4.00

Lab. No.	Name.	P. O. Address.	Amoun test.
9967	F Wavra	Pearceville	4.0
9968	R P Gunning	do	3.8
9969	J Blodek	do	8.8
9970	H Engelk	do	3.9
9971	E Jewett	do	4.0
9972	H Field	do	4.6
9973	F Cripps.	do	4.1
9974	G H Jewett.	do	4.5
9975 9976	J Perke	do	3.4
	R P Lee	do	3.4
9977 9978	H Perke	do	3.6
9979	C Balke	do	3.6
9980	F McPhearson	do	
9981	J Gunning	do	4.0
9982	D Dumphrey	do	4.0
9983	J Lutz	do	4.0
9984	F Merricks	do	3.8
9985	T R Burr	do	5.0
9986	J Birkholz	do	3.
9987	W Pasko	do	3.0
9988	M Jelk	do	4.0
9889	M F Peck	do	4.4
9990	W Forncrack	do	4.
8991	F Wakeman	do	4.
9992	John Wakeman	do	3.4
9993	Burges Bros	do	4.0
9994	A Harland	do	4.5
9965	R Harland	do	4.
9996	W H Slatter	do	3.
9997	A Cobb	do	3.0
9998	J Blaskic	do	3.9
9999	J Hanley	do	4.
10000	A D Rowe	do	4.
10001	A E Buell	do	4.
10002	F A Buell		4.
10003	J F Rowe	do	4.
10004	J Mitchell	do	4.
10005	C Atkins	do	3. 4.
10006	Plaskie Bros	do	3.
10007	K N Lavee	do	3.
10008	J H Wolf	do	4.
10009	J J White T Pybarn	do	4.
10011	F Langer	do	3.
10011	F Pearson	do	4.
10013	J Muses	do	8.
10014	Alpha separator	do	":
10015	Darish Western	do	:
10016	Butter milk	do	1 :
10017	Henry Horn	Woodland	3.
10018	R Last.	do	8.
10019	Thomas Hickey	do	8.
10020	Ed Tierney	do	8.
10021	Aug Nall		8.

No.	Name,	P. O. Address.	Amount test.
10022	F Laburni.	Wasdland	1 40
10023	F Haulitz	Woodland	4.60 3.80
10024	Wm Heesen	do	8.4
10025	Chas Princlow	do	3.9
10026	Peter Deise	do	3.8
10027	H Abret	do	8.6
10028	H Pathring	do	3.8
10029	Dan Baker	do	4.20
10030	G Hunt	do	3.8
10031	Fred Roesner	do	3.6
10032	Fred Lindert	do	4.60
10033	Fred Behm	do	4.6
10034	Frank Hahn	do	4.4
10035	John Becker	do	3.5
10036	John Margalaske	do	4.50
10037	J Muldorf	do	8.9
10038 10039	C Annis	do	8.70
10040	M Hams	do	3.4
10040	M Warner	do	4.40
10042	J Hintz	do	4.0 4.2
16043	John Nagle	do	4.4
10044	Mike BrillP M Lakes	dodo	37
10045	L Lehman	do	4.2
10046	Wm Kinkel	do	4.1
10047	P. J Lakes.	do	4.1
10048	Fred Friday	do	8.8
10019	R D Evans	Fall River	8.8
10050	W H Stonton,	do	3.5
10051	D Griffith	do	8.60
10052	H Deglow	do	3.8
10053	A S Parsons	do	3.8
10054	C Ruinow	do	8.8
10055	MVF Brossard	do	3.8
10056	J Crosman	do	3.8
10057	C.Welker	do	8.20
10068	C'Mann.	do	3.8
10059	W Deglow	do	4.2
10060	Mrs. Levises	do	4.0
10061	R Blair	do	3.8 3.4
10062 10063	E Moody	do	3.8
10064	W P Cook	do	3.5
10065	C Stout	do	4.4
10066	D W Norton	do	3.4
10067	B Coleman	do	4.0
10068	G Lange.	do	3.4
10069	W Loomis.	do	4.2
10070	J Brasard	do	3.8
10071	J Dargon.	do	3.4
10072	A Walters	do	4.0
10078	E Dickeoff	do	4.0
			3.7
10074 10075	M Walters,	do	4.0

Lab. No.	Name,	P. O. Address.	Amount test.
10077	J C Pullen	Fall River	4.00
10078	H Schweison	do	3.50
10079	M C Horbert	do	4.20
10080	E Oliver	do	3.80
10081	O Walters	do	4.20
10082	T Miller	do	8.20
10083	W Quinn	do	3.40
10084 10085	C Randall	do	4.60
10086	J Inglike	do	8.60
10087	W Kentzke T Breeze	do	3.80
10088	C Miller	do	8.10
10089	H Schafer	do	3.40
10090	C Mulvaney.	do	3.50 4.20
10091	F Heppe	do	4.20 3.60
10092	H Ruholtz'se	do	3.40
10093	W Hubard	do	3.40 8.80
10094	Butter milk	do	.10
10095	Skim milk	do	.10
10096	C A Thomas	East Delavan	3.80
10097	L D Williams	do	3.60
10098	D Church	do	8.50
10099	R.J Williams	do	4.00
10100	C L Fisk	do	4.00
10101	A Fitzgerald.	do	3.70
10102	W N Williams	do	8.10
10108	R M Calains	do	4.00
10104	R McCabe	do	4.20
10105 10106	H Dapkey	do	3.40
20107	Burt Delap	do	8.60
10108	H Granzo	do	8.70
10109	H G Hollister	do	8.70 4.00
10110	A Hageman	do	3.50
10111	J S McDougle	do	3.80
10112	George Scanlon	do	8.90
10113	L H Willis	do	3.60
10114	Geo Turry	do	. 8.80
10115	W H Brigham	do	4.00
10116	James Fitzgerald	do	3.60
10117	W F Barnes	do	3.80
10118	A. J. Hare	do	8.80
10119	W H Southwick	do	3.20
10120	C E Dodge	do	4.50
10121	H Dalton	do	
10122	C C Meacham	do	
10123 10124	Chas KishnorG W Hickson	do	4.00
10124	D N Hatch	do	4.10 4 10
10126	Mink Bros.	do	4.40
10127	Joe Buckles	u0	3.80
10128	Ed Cavanaugh	do	3.60 3.60
10129	J T Lockey	do	8.60
10130	T Lackey	do	2.80

Lab. No.	Name.	P. O. Address.	Amoun test.
10132	John Cotter	East Dalavan	4.2
10133	Ben Rockwell	do	4.4
10134	C S Stearns	do	4.0
10135	F Kishnes	do	4.0
10136	C H Maddeson	do	3.8
10137	J H Hollister	do	3.7
10138	W H Virgil	do	8.8
10139 10140	B H Mervin	do	3.8
	John Powers	do	3.9
10141 10142	G W Farrar	do	3.9
10148	H Lackey	do	3.9
10143	A W Henry	do	4.7
10144	Frank Henry	do	4.2
10146	Geo Vanvelzer	do	3.6
10147		do	4.0
10148	John Thompson Ed Brown	do .,	4.0 4.0
10149	Chas Gurke	do	3.4 8.4
10150	J I Brown	do	4.0
10151	M Mink	do	3.6
10152	P D Wendall	do	3.7
10158	Chas Henry	do	3.6
10154	I A Vandreser	do	4.0
10155	J W Utter	do	3.8
10156	G W Merrick	Spring Prairie	8.0
10157	B F Thompson	do	8,9
10158	C Ide	do	3,8
10159	J Zick	do	8.0
10160	H Banker	do	8.9
10161	C Katzenberg	do	4.4
10162	C P Green	do	3.
10163	Fred Heimstreet	do	3.8
10164	Merrick & Bullmore	do	8.0
10165	W Falk	do	3.4
10166	A Bill		3.
10167	F Hubert	do	8.
10168	E Werner	do	4.0
10169	J Murry	do	3.'
10170	ME Dike	do	3.
10171 10172	Harlow Co	do	3.0
10173	J Riggs	do	3.0
10174	Frank Miller	do	3.6 4.2
10175	Wm Zobler	do	
10176	F Patton	do	3.4 4.0
10177	N Remer.	do	3 3
10178	H Isham	do	8.4
10179	Geo Remer	do	3.8
10180	J McKer zie	do	8.9
10181	Mayhew & Miller	do	3.
10183	O H Phillips	do	8.
10183	O S Watterman	do	3.
10184	D W Dike	do	3.0
10185	W Loomis. F Watson	do	4.0
10186	T Water	do	

Iab, No.	Name,	P. O. Address.	Amount test.
10187	S Schike	Spring Prairie	3.80
10188	Mrs Holmes	do	4.00
10189	O Pratt	do	3.80
10190	O Forge	do	3.40
10191	C Kadon	do	3.80
10192	Ge Williams	do	3.70
10193	Nike & Harvey	do	3.70
10194	W Paulson	do	3.70
10195	J Neblie	do	3.90
10196	S Rossmiller	do	3.80
10197 10198	George Fratt	do	3.80
10199	F Zobler	do	3.50 3.60
10200	B Yourel	do	3.60
10501	A Erdley	do	8.30
10202	F Kester	do	4.00
10203	H Home	do	3.40
10204	G Busher.	do	3.60
10205	A Clark	do	4.60
10206	J Mitchel.	do	8.60
10207	J Brisley		3.80
10208	F Hargraves	do	8.40
10209	E Whitmore	do	4.00
10210	A D Whitmore	do	4.20
10211	J S Whitmore	do	4.10
10212	H Knife	do	8.40
10213	C Vaughn	do	4.00
10214	Dan Whitmore		3.70
10215	W Hicks	do	4.10
10216 16217	S Bushman	do	4.20 4.20
10217	C Sodawater	do	3.60
10219	Ed Ward		4.20
10210	F Hempstead	do	8.50
10221	W Disthick		3.80
10222	Will Webb	do	3.80
10228	Will Holden	do	4.00
10224	Butter milk	do	.40
10225	Skim milk	do,	.20
1022ö	Mrs Clark	do	3.80
10227	F C Weaver	Millard	4.30
10228	J Black	do	3.70
10229	Ed Loomis	do	3.60
10230	H Barker	do	3.60
10231	Pierce & Taylor	do	4.40
10232	EJ Thomas	do	3.30
10233	H O Robb	do	8.70
10284 10285	O W Robb	do,	3.50 3.60
10255 10256	C Donaldson	do	3.70
10287	Mark Webb	do	8.80
10238	Joe Remer.	do	8.40
10239	E Field	do	3.60
10240	L G Loomis		4.00
10231	W Count		3.80

Lab. No.	Name.	P. O. Address.	Amount test.
10242	J Matheson	Millard	4.30
10243	J Duncomb	do	3.60
10244	Ward Owens	do	2.70
10245	J Matheson	do	3.80
10246	G Barker	do	3.80
10247	A Hanson	do	3.60
10248	W_Gage	do	3,60
10249	F Begelow	do	8.70
10250	A L Morrison	do	3.80
10251	Rial Thomas	do	4.60
10252	George Pierce	do	4.00
10253	O L Peterson	do	8.80
10254	G Bray	do	• • • • • • •
10255	G Rophold	do	
10256	E Webber	do	4.40
10257	Ed Weaver	do	8.40
10258	Ed Mallory	do	3.60
10259	Mrs A Begelow	do	8.60
10260	H Fenner	do	3.60
10261	H Messerschmidt	do	4.00
10262	D Harris	do	8.70
10263	B Parrish	do	3.4
10264	J Edwards	do	4.00
10265	Jacob & O'Brien	do	8.8
10266	Geo Kirchoff	do	4.10
10267	H Welsh	do	8.70
10268	Skim milk	do	0.10
10269	Butter milk	Pierceville	0.20
10270	F flower.:	do	5.10 4.00
16271 10272	E Jewett	do	4.6
10263	H Jewett	do	3.80
10203	F Wanera	do	9.00
10275	H Field	dodo	4.8
10276	Burges Bros.		4.60
10277	Wm Paskey	dodo	8.60
10278	C Balk	do	4.00
10279	- Thompson	do	3.20
10280	J Blaska	do	4.1
10281	Joe Hanley	Marshall	8 6
10282	W H Porter	do	8.5
10283	A Wedderward	do	3 6
10284	M Meachelson	do	8.6
10285	F Preppernow	do,	8.4
10286	Wm Radke	do	3.3
10287	H H Beebe	do	8.5
10288	G M Begelow	do	4.4
10289	Wm Agnew	do	8.4
10290	James Copeland	do	3.0
10291	O Sorenson	do	3.2
10292	T Hart	〈 do	3.6
10293	Mat Schmidt	CalvaryN	8.0
10294	Mat Schmidt	do	4.8
10295	G Leibel	do	8.6
10296	A Borschback	do	3.6

Lab. No.	Name.	P. O. Address.	Amount test.
10397	N Hass	Calvary	3.60
10398	Geo Leibel	do	8.20
10899	John Gilgenback	do	3.60
10300	Wm Shroeder	do	3.70
10301	J B Michels	do	5.40
10302	J B Michels	do	8.00
10303	H Rosenbaum	do	8.80
10304	H Rosenbaum	do	. 3.00
10305	Peter Borschback	do	8.40
1030 6	E Dines	do	3 90
10307	H Olenberg	do M.	
10308	H Olenberg	do	
10309	F Schafer	do	8.20
10310	John Schafer	do	8.80
10811	H Leibel	do	8.60
10312	H Leibel	do	
10313	John Leibel	do	8.50
10314	J Borschback	do	
10315 10816	J Borschback	do,	4.00 8.40
10317	John Engle	do	8.20
10317	Mrs C Haengens	do	
10319	Mrs C Haengens	do	3.30
10319	A Hoensgen	do	8.00
10321	J Hollister	Delavan!	8.90
10322	Rocker	do	1 1 2 7
10823	J Johnson	do	
10324	I Rood	do	3.70
10325	John Dooly	do	8.40
10326	J Cody	do	4.00
10327	Wm Hurdis	do	3 70
10328	Dan Vroman	do	8 60
10329	C Rice	do	3.70
10330	J Byrns	do	3.90
10831	J Southwick	do	
10532	H A Briggs	do	
10388	W Henry	do	
10334	Frank Bangs	do	
10335	C Josephson	do.	8.90
10336	C Ives	do	3.80
10337	Sam Hollister	do	8.50
10338	Roes Smith	do	
10339 10340	E Bowers	do	3.90 8 20
10340	T Chrishtan	do	3.40
10341	A Gillickson	do	.20
10343	Butter milk	d)	.60
10344	Dan McKillip	Argyle	8 80
10345	H Carlson	do	3.50
10346	J McJelhetten	do	3.80
10347	James Darragh	do	2.80
10348	Pat Darragh	do	3.70
10349	John McKillip	do	8.80
10350	Tom Hanson	do	3 20
10351	Peter Whelan		3.40

Lab. No.	Name.	P. O. Address,	Amount test.
10352	Wm Darragh	Argyle	8.40
10353	Buttermilk	Angelo	0.60
10354	D Smith	do	3.60
10355	S Millard	do	3.20
10356	E W Babcock	do	4.20
10357	C Winterfield	do	3.40
10358	H Homer	do	3.80
10359	S Hanson	do	4.20
10360	W J Wilcox	do	
10861	H Winterfield	do	3.80
10362	G Neinart	do	3.80
10363	D Hawley	do	5.00 5.50
10364 10865	B Pokrand	do	
10866	Skim milk D Webster	do	3.80
10367	F Convers		4.20
10368	C Daniels	do	
10869	B Wright		
10870	F Davis.		
10371	J Boyer	do	4.40
10372	W Hagus		
10373	F Riewert.	do	
10374	J Nahle		
10375	A H Dahmens	do	4.00
10376	O L McOmber	do	4.20
10×77	P Finn	do	
10378	L Prescott	do	5.20
10379	J W Leverich		3.60
10380	R Duschack	do	4.00
10381	R Gunning		
10382	E H Jewett		
10383	J Bledek		
10384	F Langers		
10385	N Field	do	4 40
10386	C Balk	do	
10387	F Wabra	Pierceville	3.80
10388	R P Lee		
10389	H Pirke		
10890	T Cripps		
10391 10392	F W McPhersonG H Jewett		1 7 33
10393	J Perke		7 7 7 7 7
10394	P Dumphrey		
10374	H Engelka		1
10396	PO Flower		5 00
10397	T R Burr		
10398	T Pyburn		1 7111
10399	A D Rowe		
10400	N D Stater		
10401	William Paske		
10402	J Leitz	. do	. 3.80
10403	Fred Cole		
10404	J Gunning		
10405	Burges Bros	. do	. 3.60
10406	A Bany	. do	. 3.60

Lab. No.	Name.	P. O. Address.	Amount test.
10407	R Harlin	Pierceville	4.00
10408	A Harlin.	do	3.80
10409	A Cobb	do	3.20
10410	J Balskie	do	8.70
10411	J Hanley	do	3.80
10412	C H Thompson	do	2.80
10413	J Barkhaltz	do	3.80
10414	M Yelk	do	8.60
10415	F Merrick	do	3.60
10416	A E Buel.	do	4.20
10417	F A Bnel	do	4.00
10418	J M Laizer	do	2.80
10419	CH Farr	do	3.30
10420	J F Rowe	do	4.20
104:1	J Mitchell	do	3.80
10422	C Atkins	do	3.90
10423 10424	A J Blaskie	do	3.80
10424	G A Snoak	do	3.60
10425	J J Wolf	dodo	3.20 3.60
10427	J J White	do	1
10428	T Ford	Fulton	
10429	B Davis	do	
10430	John Nicholas	. do	
10431	D Casey, Sr	do	
10482	Geo Nichols	do	
10433	H Green	do	8.20
10434	H Schmealing	do	
10485	H Frettendahl		3.40
10436	E Ford	do	3.20
10437	W Porter	do	
10438	J M Lelman	do	3.20
10439	J Oleson	do	4.20
10440	D Casey, Jr	do	. j 8.60
10441	O Benleg	do	
10442	J Fussett	do	
10443	A W Seno	do	
10444	H J Johnson		. 3.10
10445	N A Pound		
10446	John Lahey	do	
10447	L Fessenden		
10448	D McCarthey		
10449 10450	G Lynts D Paund		
10450	C Stewart	1do	
10451	Ed Jensen		
10453	H R Hauff		
10454	Geo Haylock		
10455	E Haylock		1 217.
10456	Mrs J M McCarthy	do	
10457	C Nelson		
10458	R Earl	do	
10459	H Jalsett		1 2 7
10460	G Searls		
10461	R Searls		. 8.40

ANALYSES OF MILK.

Lab. No.	Name.	P. O. Address.	Amour test.
10462	S Hansen.	Fulton	3.6
10463	C H Davis	do	8.8
10474	A H Hagen	do	4.(
10465	F Sperry	do	3.4
10566	O Ammandson	do	4.2
10367	W M Falls	do	3.4
10468	T Byrns	do	8.8
10469 10470	Skim milk	do	
10470	Butter milk	do	3.6
10471	A Loga.	do	4.0
10478	G Binkhert	do	3.
10474	A Bartels	do	3.0
10475	A Johnson	do	3.0
10476	P Pierce	do	3.
10477	S Klement	do	3.
10478	F Procknow	do	4.
10479	Thos North	do	3.
10480	Isaac Bunting	do	3.
10481	Frank J Lee	do	8.
10482	Butter milk	do	
10483	Butter milk	do	
10484	Wm Goldthorp	do	3.
10485	B Merriman	do	3.
10486	J Jenson	do	8.
10487	M A Robbins	do	3.
10488	James Whittet	do	3.
10489	W D Hemphill	do	3.
10490 10491	A Marsden	do	4. 3.
10402	Henry Williams	do	4.
10493	C Marsden	do	2.9
10494	J Dickenson	do	3.
10495	Z V Kumlin	do	3.
10496	C Pierce	do	4.
10497	C Sclogg	do	4.
10498	B Cooper	do	3.
10499	F Madison	do	3.
10500	T Marsden	do	3.
10501	F Jenkins	do	3.
10502	L Touton	do	4.
10503	W Marsden	do	8.
10504	G Silverwood		4.
10505	Tom Green	do	3.
10506 10507	R Bulles	do	3.
10508	T J AtwoodL B Crandall	do	3. 3.
10509	R Creson	do	3.4 3.4
10510	Geo Dickenson	do	3. 3.
10511	S im milk	do	0.
10512	W Bickel	do	3.
10513	Sam Plum	do	4.
10514	N C Larson	do	3
10515	Chas Hammerqurst	do	3.
10516	O Bickley	do	

Lab. No.	Name.	P. O. Address.	Amount test.
10517	J Emrath	Ft Atkinson	3.80
10518	E A Melbury	do	3.60
10519	J C Drover	do	3.70
10520	N W Atwood		4.00
10521	R Striegel	do	4.00
10522	P C Olson	do	4.20
10523	Albert Anderson	do	3.80
10524	J M Jacobson	do	4.00
10525	J Nast	do	4.00
10526	James Peterson	do	4.00
10527	A C Kravick	do	3.40
10528	Otto Anderson	do	3 60
10529	Sam Larson	do	3.60
10530	Taylor Johnson	do	3.60
10531	M Carlson	do	4.00
10532	Sam Kump	do	4.00
10533	L Kump	do	4.00
10534	J Williams	do	8.60
10535	Geo Hall		8.40
10536	H Ehbenpeldt	do	3.00
10537	C H Toll	do	3.40
10538	Sam Hall		3.00
10539	Arnold Slagg	do	3.60
10540	Albert Slagg	do	3.60 4.00
10541	Sam Marsten	do	3.80
10542	Al Marsten	do	3.80
10548	Chas Barker	do	3 60
10544 10545	M Slagg	do	3.60
10546	O L Wigsman	do	4,20
10547	J E Jacsbson	do	3,50
10548	Mrs A Simonds	do	3.80
10549	John Simonds	do	3.60
10550	H Jacobson	do	3.80
10551	Tom Barton	do	3.40
10552	M L Omskardt	do	8.60
10553	Art Wickers	do	4.00
10554	Mrs. T Leon	do	3.50
10555	Sam Wilman	do	4 20
10559	Albert Crandall	do	4.20
:0567	Ole Johnson	do	i 3.50
10558	Robt Smith	do	3.50
10559	Mrs Johnson	do	4,00
10560	Andrew Nelson	do	3 80
10561	Mrs E Nelson	do	3.80
10562	Chas Larson	do	4.00
10563	P Larson	do	3.80
10564	Andrew Serns	do	3.80
10565	Skim milk	do	.10
10566	Skim milk	do	.20
10567	Joe Prissern	Chilton	4.00
10568	C Baker	do	3.40
10569	Frank Phillips.	do	3.80 3.60
10570	Mat Prapson	do	
10571	Henry Seolts	ldo	^J 8 60

Lab. No.	Name.	P. O. Address.	Amount test.
10572	Albert Luwoc	Chilton.	3.80
10573	A Kind.	do	3.20
10574	F Luwoc.	do	3.70
10575	L Barke	do	3.80
10576	G Markle	do	4.40
10577	A Hanchel	do	4.20
10578	F Yarn.	Fox Lake	4.20
10579	J Messer	do	4.20
10580	Frank Schmidt	do	3.40
10581	Rob Kobell	do	3.40
10582	S Miller	do	2.80
10583	Frank Green	do	3.60
10584	F Bloschfeldt	do	2.60
10585	A Frank	do	3.40
10586	G Schultz	do	3.20
10587	Aug Ludwig	do	3.50
10588	C Hass	do	2.90
10589 10590	W Watsen	do	3.60
	W Wetcan	Reedsville	3.60
10591 10592	C Hurel W Ludwick	do	3.00 3.80
10593	John Bass	do	3.00
10594	Fred Bass Sr	do	3.60
10595	Fred Bass Jr	do	3.70
10596	G Haese Jr.	do	4.00
10597	W H Cooney	do	4.00
10598	W H Cooney	do	4.60
10599	John Schmidt	do	3.40
10600	L B Bush	do	3,30
10601	L B Bush	do	4.20
10602	T Klovatskek	do	3.80
10603	T Klovatskek	do	4 00
10604	James Nelson	do	3.30
10605	James Nelson	do	2.80
10606	James Vanbroechek		3.80
10607	James Vanbroeshek	do	
10608	F Schwabek	do	4.40
10609	Mrs C Haese	do	3.30
10610	S Eigenberger	do	8.40
10611	Wm Haese	do	4.00
10612	G Haese	do	3.70
10613 10613	Anton Bohmen	do	4.20
10615	Anton Bohmen	do	3.20
10616	Mike Odea	do	3.50
10617	John Vanbroechek	dodo	4.00 3.60
10617	F BessertSohn Wahnek	do	4.00
10619	D O'Brien	do	4.00
10620	D O'Brien	do	3.20
10621	Frank Wallander	do	4.60
10622	Mrs Gintner	3.	0 70
10623	Joseph Gintner	do	4.20
10624	A Bahnlke.	····do.	3.60
1062g	A Eigensberger.	do	3.80
	1 5	do	4.00



Lab. No.	Name,	P. O. Address.	Amount test.
10627	Lawrence Cooney	Reedsville	4.00
10628	Lawrence Cooney	do	3.00
10629	M T Coonay	do	4.00
10630	H Bessert	do	4.00
10631	F Burich		3.00
10632	F Buholz	do	4.00
10633	P Kufale	do	3.60
10634	L Purenskey	do	3.60
10635	Joe Kirch	do	4.30
10636	W Schiman	do	3.20
10637	J Schiman	do	3,20
10638	F Kupole	do	3.40
10639	Dan Buholz	do	3.60
10640	Henry Zuleger	do	3.30
10641	J Veseley	do	3.40
10642	A Burich	do	3.40
10643	Albert Kupole	do	3.20
10644	A Kreuger	do	4 00
10645	J Voltana	do	4.00
10646	W Budlelousky	do	4.00
10647	H Busch	do	4.20
10648	H Fischer	do	4.00
10649 10650	Aug Bratz	do	
10651	John Cerman M Baenick	do Norman	4.20 4.20
10652	Anton Puger	do	4.40
10653	Anton Dietz	do	3.00
10654	B Dewarrak	do	4.40
10655	J Schliese	do	3.00
10656	Chas Walters.	do	8.50
10657	Joe Doepek	do	4.80
10658	Frank Pisa	do	4.00
10659	Joseph Beier	do	2.60
10660	F Frank	do	8.30
10661	Anton Riser	do	3.40
10662	James Banda	do	4.00
10663	Nich Jackson	do	3.60
10664	James Flegle	do	3 60
10665	James Uban	do	3.40
10666	Thomas Valin	do	3.70
10687	Vincel Lukesa	do	4.10
10668	George Mach	do	4.30
10669	James Malechek	do	4.00
10670	F Wittman	do	3.80
10671	A Bonril	do	3.50
10672	John Kunish	do	3.90
10673	R Hoffman	do	2.80
10674	R Olason	Beaver Dam	3.80 4.00
10675 10676	Chas Schultz	do	3 80
10676	Wm Friedrick H Dirge	do	3.60
10678	James Mayer	do	5 00
10678	Aug Friedrick	do	8.50
10680	Fred Zarwell	do	8.80
			3.20
10681	John Louth	dol	8.20

Lab. No.	Name,	P. O. Address.	Amount test.
10682	Henry Tusing	Beaver Dam	8.70
10683	Ben Neihoff	do	8.50
10694	Mike Hass	do	3.90
10685	G Strange	do	3.20
10686	Herman Hanfeld	do	3.30
10687 10688	Joe Budde	do	8.40 3.70
10689	Henry Budde, Sr	do	3.70
10690	Wm Jack	do	3.00
10691	Henry Budde, Jr	do	3.40
10692	Nick Gerigan	do	3.60
10693	Chas Roderman	do	3.50
10694	H Kerkhoff	do	8.60
10695	Adam Birtz	do	4.10
10696	Peter Christain	do	4.00
10697	Peter Weber	do	4.00
10698	Thomas Nelson	do	3.80
10699 10700	John Sullivan	do	3.70 4.00
10701	Joe Birtz	do	8.80
10702	G Hutchinson	do	4.20
10703	L Casperson	do	8.80
10704	Jens Christenson	do	3.80
10705	Peter Birtz	do	8.20
10708	Wensel Lerasek	Norman	4.10
10709	Mat Krasel	do	3.20
10711	Jake Krasel	do	8.40
10710	Wenset Palmer	do	4.20
10712 10713	George Stangel	do	4.20
10714	Mary Stengel	do	4.30
10715	W Augustine	do	3.80
10716	Charles Prause	do	3.60
10717	W Melcher	do	3.60
10718	Joseph Prause	do	3.60
10719	Johu Talesky	do	8.40
10710	Frank Schlees	do	4.40
10711	Mat Riche	do	4.40
10723	James Charney, Jr	do	3.30
10723	James Charney, Sr	ço	3.30
10724	Jacob Wyochek	do	4.40
$10725 \\ 10726$	Frank Falk	do	4.40
10727	Jacob Wanek	do	4.40
10728	Anton Produck	do	3.30
10729	Frank Langer	do	3.30
10720	Frank Hinesh	do	
10721	Chas Laddle	do	4.40
10732	F Melches	do	4.40
10733	Josebh Laddle	do	4.40
10734	N Penhauer	do	4.49
10721	E Madoche	Saloma	4.40
10722 10923	Joseph Drovers	do	4.40
	F Ellis	do	3.30

ANALYSES OF MILK - Continued.

Lab. No.	Name.	P. O. Address.	Amount test.
10925	Hans Christianson	Saloma	8,60
10923	John Mathison	do	3.70
10927	E Sorenson	do	3.80
10928	Martin Johnson	do	4.30
10929	F Michels	do	3.60
10930	Chris Jacobson	do	3.60
10931	Knute Jamey	do	4.00
10932	H Haiverson	do	3.60
10933	John Christianson	do	4.20
10934	Wm Helmholz	do	4.00
10935	Edward Oleson	do	3.90
10936	N Esben	Kings Bridge	5.00
10937	S Worthington	do	4.70
10938	J Braker	do	4.60
10939	J Reinard	do	4.30
10940	F Pech	do	4.20 4.50
10941 10942	A Bolzenthal	do	3.00
		do	4.90
10948 10944	J Just	do	4.00
10944		do	5.00
10946	W SpencerF Haws.	do	5.10
10947	H Stadler	do	1 3.40
10948	G Fulton	do	3.20
10949	C Tills	do	5.40
10950	J Koch	do	4.40
10951	H Grobe	do	4.20
10952	H Riley		3.60
10953	N Jost	do	4.00
10954	J Brand.	do	4.00
10955	C Worthington	do	5.40
10956	T Cross	do	4 40
10957	A Kasda	do	4.90
10958	A Youra	do	4.30
10959	G Robinson	do	4.10
10960	R Blantz	do	4.50
10961	M Masner	do	3.60
10962	M Bartelnse	do	3.50
10963	P Kornley	do	4.70
10964	G Kornley	do	5.10
10965	V Schweda	do	4.00
10966	J Haws	do	3.50
10967	J Bucklev	do	5.40

BAKING POWDER.

This most important subject is entirely ignored by the Wisconsin laws so far as any specific enactment is concerned and the makers of the cheap alum powders are entirely at liberty to glut the market of the state with their wares to the detriment of the public health and the manifest injury of all that are making a powder that is a really healthful and pure article.

The only case in which this commission has been directly interested is No. 10,789 which was a sample submitted by Hon. G. L. Hood, District Attorney of La Crosse. The sample in question was taken from bulk baking powder that was sold by a party of "Box-car merchants" to the farmers in the vicinity of La Crosse and was guaranteed to be the "Royal."

The merchants were arrested for the misrepresentation and upon examining the sample, it proved to be an alum baking powder, containing ammonia while the "Royal" is a pure cream of tartar powder and contains neither alum nor ammonia.

A state law requiring the plain and legible branding of all baking powders containing alum cannot be too strongly recommended.

VINEGAR.

Much attention has been paid to the subject of vinegar as will be evidenced by the table appended. The percentage of adulteration in this table of 383 samples is 43 per cent. a result that is somewhat startling but it must be borne in mind that many of these cases of adulteration are merely technical and that no single sample in the entire number shows any ingredient that is the least injurious to public welfare except in a commercial sense.

There are a variety of methods of estimating the acid strength of vinegar and these differ slightly and this variation accounts for many samples that contained 3.8 or 3.9 per cent. of acetic acid where they are required to contain 4.0 per cent. The intent to comply with the law is perfectly evident but the jobbers and manufacturers have placed their faith in some test that is not accurate and the fact that the goods are technically adulterated is rather their misfortune than their fault.

The method employed in the state laboratory is the direct titration of a measured sample with standard sodium hydrate, using phenolphthlein as an indicator and this method has been found to be sufficiently accurate for rapid and commercial work.

The greatest trouble lies in the fact that our state laws permit distilled vinegar to be colored and as this is done largely to imitate cider vinegar, many merchants are deceived. A law forbidding the artificial coloring of all vinegars would remedy this and bring the percentage of adulteration much lower.

In making the report on vinegar, I cannot refrain from extending my thanks for samples and assistance to Mr. A P. Callahan of the Prussing Vinegar Company, of Chicago; Mr. F. C. Johnson of Kishwaukee, Ill., and to the Genesee Fruit Company of New York.

With the co-operation of these gentlemen, I have been enabled to procure samples and make experiments that have been invaluable.

VINEGAR TABLES.

Lab No.	Date.	Dealer.	Residence.	Manufacturer.	Residence.	Per ct Per ct acid, solids.	er ct olids.	Kind.
5555 5556 5556 5556 5556 5556 5557 5556 600 600 600 600 600 600 60	Aug. 80,98 Aug. 80,98 Aug. 80,99 Sept. 22,92 Sept. 22,	H G Chase L Weber L Weber John Martin H Harden M J Kraus M Steinmetz M Karan & Rennebohm Larson & Rennebohm J Bienfang & Son. M Steinmetz M Steinmet	Platteville. Monroe. Monroe. Marshfield. Morrisonville. Marshfield. Marshfield. Marshfield. Marshfield. Marshfield. Marshfield. Marshfield. Marshfield. Marshfield. Oshkosh. Morrisonville. Morrisonville.	C E Meyer & Co. Prussing V. Co. Prussing V. Co. Red Cross V. Co. Red Cross V. Co. Red Cross V. Co. C E Meyer & Co. Wm Bunge & Co. Wm Bunge & Co. C E Meyer & Co. C E Meyer & Co. Red Cross V. Co. Wm Bunge & Co. C E Meyer & Co. C E Meyer & Co. C E Meyer & Co. Red Cross V. Co. Red Cross V. Co. C E Meyer & Co. Burrell Bros. Burrell Bros.	Freeport, III. St. Louis Mo Chicago, III. Chicago, III. St. Louis, Mo St. Louis, Mo St. Louis, Mo Freeport, III. Chicago, III. Chicago, III. Chicago, III. Freeport, III. St. Louis, Mo Freeport, III.	6.88.88.64.84.84.84.84.84.84.88.84.44.88 6.44.88.86.84.88.17.88.86.88.17.88.86.29 6.44.88.86.29.17.88.86.29	11.00.00.00.00.00.00.00.00.00.00.00.00.0	Spirit. Cider. Cider. Cider. Spirit. Cider. Spirit. Gider. Spirit. White wine. Cider. White wine. Cider. White wine. Cider. Brown. Brown. Brown. Brown. White wine.

VINEGAR TABLE-Continued.

ı	1
Kind.	White wine Brown Malt Cider White wine Cider
Pr. ct. Solids	2.0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
Pr. ct. Pr. ct. Acid Solids	01 0.0000000000000000000000000000000000
Residence.	Freeport, III. Chicago, III. Chicago, III. Chicago, III. Oshkosh, Wis. Freeport, III. Janesville, Wis. Chicago, III. Freeport, III. Freeport, III. Freeport, III. Freeport, III. Kreeport, III. Kreeport, III. Kreeport, III. Chicago, III. Kreeport, III. Kreeport, III. Kreeport, III. Kreeport, III. Kreeport, III. Chicago, III. St. Louis, Mo
Manufacturer.	Burrell Bros. Sprague, Warner & Co Sprague, Warner & Co Sprague, Warner & Co Arnold V. & Yeast Co Own make C E Meyer & Co C E Meyer & Co C Allworth Merriam Collins & Co. Red Cross V. Co C H Rosenstiel & Sons C H
Residence.	Lowden, Iowa. Madison. Madison. Janesville Madison. Kenosha.
Dealer.	J Freund & Co. Corry Bros. Corry Bros. Corry Bros. W F Carle F Christman F Christman F Swinslow Ball & Bates. W T Vankirk. W T Vankirk. W T Vankirk. C E Brown H S Johnson. A C Munger. F Jowel. Grubb Bros. Skelly & Wilber. Corry Bros. Haageman Bros. Georry Bros. Haageman Bros. Georry Bros. Haageman & Co. Corry Bros. Haageman Bros. Grubb Bros. Grubb A Co. Corry Bros. Haageman Bros. Grubb Bros. Haageman Bros. Grubb Bros. Lentz & Funk. W D Bailey & Co. Gffroerer & Co. Skahl & Co. Skahl & Co. Skahl & Co.
Date.	Feb. 23, 92 Reb. 23, 92 Mech. 3, 93 Mech. 10, 93 Mech. 29, 93
Ko.	6286 6288 6287 6287 6287 6288 6288 6288

ii **
Cider
88
848888888848484488488888888484888444848888
Milwaukee New York Milwaukee Chicago St. Louis, Mo. Freeport, III. Chicago Rishwaukee, III. Kishwaukee, III. Kishwaukee, III. Kishwaukee, III. Kishwaukee, III. Kishwaukee, III. Chicago. Kishwaukee, III. Chicago. Kishwaukee, III. Chicago. By Louis, Mo. St Louis, Mo. Chicago. Dubuque, Ia
Anson Bros. Schuyler & Co. P Bechtner Co. Roth Mfg Co. Rad Cross V. Co. C H Rosenstiel & Sons John S Gould & Co. Barrett Prussing Co. Merriam Collins & Co. Merriam Collins & Co. F Heinz. F C Johnson.
Racine Racine Racine Racine Racine Beloit Bacine Racine Bacine Bacine Bacine Bacine Bacine Bacine Bacine Bacine Beloit Be
G A Rickmann Lewis & Mohr Wickam & Williams I L Easson Hanley Bros. Stiles & Rogers Greene & Co. Clifford & Smiley. F E Westgate. John Meehan G E Sanger Engel Bros. F S Winslow I L Easson Stiles & Rogers Stiles & Rogers W C Jones W C Jones B R Falls L & M Co. A Erickson & Co. O C O'Hearn E R Thompson J M Kelly J M Kelly J A Smith S L Fowler C H Fowler C H Fowler C H Fowler C H Fowler S C H Feborn F S Winslow C C C Hearn F R Thompson J M Kelly J M Kelly F R Thompson F S Wonler C H Fowler C H Fowler F R Thompson F R F Thomp
86.88888888888888888888888888888888888
M M M M M M M M M M M M M M M M M M M
6584 6586 6589 6589 6609 6609 6609 6608 6609 6610 6611 6611 6611 6611 6611 6611

VINEGAR TABLES — Continued.

tr	I o i	ø	ø	ø
rei	wine.	wine.	win	ine. ine. wine.
Kind.	White Brown. Cider. Brown. Cider. Malt. Cider. Red w		Brown. Cider. Brown. White Cider. Cider. Brown.	
Per ct Solid.	0.00			
Per ct Per ct Acid. Solid.	8.4.4.4.4.0.8.4.8.7.0.8.4.8.9.1.9.1.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4.4	8 4 4 4 5 5 5 8 6	8.53 8.53 8.53 8.53 8.53 8.53 8.53 8.53	
Residence.	Chicago, Ill		Ashland Chicago St Faul, Minn Milwaukee	
Manufacturer.	Red Seal V. Co. Barrett Prussing Co. C E Meyer & Co. Wells Stone Co. Wells Stone Co. P Bechtner Co. F K Spink	FK Spink Barrett Prussing Co. P Bechtner Co. Red Seal V Co.	J B Matthews Barrett Prussing Co F K Spink P Bechtner Co	pink. spinx. make. v Co.
Residence.	Chippewa Falls Chippewa Falls Chippewa Falls Chippewa Falls Chippewa Falls Chippewa Falls W Superior W Superior W Superior W Superior W Superior W Superior	W Superior W Superior Ashland	Ashland Ashland Ashland Ashland Ashland Ashland Ashland	Ashland Ashland Madison Janesville Racine Racine
Dealer.	Union Grocery Co Monat & Hanzlin Jerry Palmer S B Strong C O Herbig Chambers & Ripley Miley & Wood P W DeLong & Co	Wood, Suyder & Co. Rogers & Licks P Keenan	G G Young Win Haskins Leonard & Co K C King W W Wilson Thos Sullivan & Co Weed & Gumaer W W Kapler & Co	C E Blune B G Buchanan L Brace Chas P Jorgenson. Chas P Jorgenson.
Date.	April 18, '93		April 18,93 April 18,93 April 18,93 April 18,93 April 18,93 April 18,93	April 18, 93 April 18, 93 April 28, 98 April 24, 98 April 27, 93
No No	6632 6632 6632 6633 6633 6633 6635 6635			6653 6653 6653 6659 6659

wine	wine	wine	wine wine	wine
	Brown Red White Cider Cider	White Cider Cider Cider	White White Brown Brown	White Cider Cider Cider Cider Cider
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4 4 4 8 8 8 8 8 8 4 4 4 8 8 8 8 8 8 8 8	44.7.4.8. 44.0.4.8. 44.0.1.8.	4.00.4.4. 6.00.4.4. 6.00.4.00.1.	3.85 4.40 8.66	
St Louis, Mo St Louis, Mo St Louis, Mo Chicago Chicago Freeport, III Freeport, III	Milwaukee St Louis, Mo St Louis Mo Milwaukee Chicago	Chicago	Chicago Milwaukee Milwaukee	St Louis, Mo. Milwaukee.
Red Cross V Co Alden V Co Prussing V Co C H Rosenstiel & Sons C H Rosenstiel & Sons C H Rosenstiel & Sons	Am V Works Red Cross V Co. Red Cross V Co. Red Cross V Co. Perussing V Co. Alden V Co.	F Macveagn & Co Prussing V Co Dalinden & Gallasch. Dalinden & Gallasch. Dalinden & Gallasch. Dalinden & Gallasch.	V J Quan. P Bechtner Co Ped Cross V Co.	Alden V Co. Red Cross V Co. J Wellauer & Co. Dewey & Davis.
Beloit. Beloit. Beloit. Wittenberg. Sharon. Fond du Lac. Ashland. Fond du Lac. Beloit. Beloit. Beloit.	Reedsburg Watertown Watertown Watertown Janesville	Snaron	Bangor Oconomowoc	Oconomowoc. Oconomowoc. Oconomowoc. Oconomowoc. Oconomowoc. Oconomowoc. Oconomowoc.
Stiles & Rogers Stiles & Rogers Stiles & Rogers Herman Meisner D S Benage. P N Quentin Jos Borecky Chas Foelsch Greene & Co Greene & Co Greene & Co Greene & Co	Webb & Schwekes G A Stallman G A Stallman G A Stallman E A Shattrok Nehs & Schwantz	L A Shattuck LA Shattuck Lentz & Funch Lentz & Funch Lentz & Funch Lentz & Funch		Welsh CL Kel CN Mu J Greer J Greer J Wood
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Apr. May		May May May		
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VINEGAR TABLES—Continued.

Lab No.	Date.	Dealer.	<u>.</u>	Residence.	Manufacturer.	Residence.	Per ct Per ct acid. solids	er ct olids	Kind.
6935 6935 6945 6945 6945 6945 6955 6955 6955 695	June 20,000 June 12,17,17,17,17,17,17,17,17,17,17,17,17,17,	2,393 J Green. 7,393 J M Leavitt. 7,393 C B Draper. 7,393 C B Draper. 7,393 J M Wigginton. 2,393 J M Wigginton. 2,393 J M Wigginton. 2,393 J M Wigginton. 2,393 John F Bender. 2,393 John Benle. 6,393 M E Williams. 66,393 M E Williams. 66,393 J H HIllier. 20,393 J H HILLER. 20,393 J H HILL	con co	Oconomowoc	P Bechtner Co. Alden V Co. Alden V Co. CON Rosenstial&Sons North Western V Co. Red Cross V Co. Red Cross V Co. Red Cross V Co. Ped Cross V Co. Red Cross V Co. Red Cross V Co. Ped Cross V Co. Am V Works. P Bechtner Co. Red Cross V Co. Am V Works. Dahinden & Gollasch Red Cross V Co.	Milwaukee. Milwaukee. St Louis, Mo. St Louis, Mo. St Eaul, Minn. St Louis, Mo. St Louis, Mo. Milwaukee. St Louis, Mo. St Louis, Mo. Chicago.	80004404444444444446046046046	48.0 0 0 18.0 0 0 0 0 0 0 0 0 0	Cider. Cider. Cider. Cider. Cider. Brown. Brown. Brown. Brown. Brown. Brown. Brown. Cider.
8724 8724 8725 8725		<u> </u>	wenson.	Berlin Madison Hollandale Hollandale	Prussing V Co Burrell Bros	Chicago Freeport, III Freeport, III	2000 2000 2000 2000 2000		Brown. Brown. Brown.

Cider. Brown. White Wine. Brown. Cider.	te wine. yr. yr. yr. te wine. yr. yr. yr. tr. te wine.
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9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.9.	4.0.44.4.4.44.0.4.4.0.4.4.0.8.8.0.0.0.0
Chicago St Paul St Paul Milwaukee St Louis, Mo Chicago Chicago St Louis, Mo St Louis, Mo St Louis, Mo Chicago	Kishwaukee, III. Chicago Chicago Chicago St Louis, Mo Chicago Chicago Chicago Chicago
Prussing V. Co. F.K. Spink. N.W.V. Co. P. Bechtner Co. Prussing V. Co. Prussing V. Co. Red Cross V. Co. Red Cross V. Co. Red Cross V. Co. John S. Gould. F. K. Spink. F. K. Spink. F. K. Spink.	F C Johnson. Prussing V Co. Prussing V Co. Red Cross V Co. P Betchner Co. Red Cross V Co. Spargue, Warner & Co. Sprague, Warner & Co.
Madison Ashland Ashland Ashland Ashland Bashland Madison Madison Beloit Ashland	Oconomowoc Appleton Madison. Eau Claire Beloit Beloit Beloit Beloit Conomowoc Highland Beloit Oconomowoc Highland Beloit Beloit Appleton.
Corry Bros C N Cramer & Co. S L Fowler H Grove & Sons Stiles & Rogers Stiles & Rogers Stiles & Rogers Gifford & Smiley. Clifford & Smiley. Clifford & Smiley. Stiles & Rogers Stiles & Rogers Clifford & Smiley.	
June 24,33 June 24,33 June 24,33 June 27,33 July 17,33 July 17,33 July 17,33 July 21,33 July 21,33 July 28,33 July 28,33	[www.4.4.4.4.4.4.00,010,010,00,00,00,00,00,00,00,00,00,00
*2611 87127 87127 87129 87139 87139 87141 87141 87141 87141 87141 87141 87141 87141 87141 87141 87141 87141 87141 87141	8748 8749 8750 8751 8752 8754 8755 8756 8756 8769 8769 8769

VINEGAR TABLES - Continued.

Kind.	Cider.
Per ct Per ct Acid. Solids	4 :
Per ct Acid.	4630344444444669466644444444444444444444
Residence.	Chicago St. Louis St. Louis St. Louis St. Louis Chicago Milwaukee Milwaukee Milwaukee Milwaukee Chicago Chicago Milwaukee Chicago Milwaukee New York Ne
Manufacturer.	F Mac Veagh & Co. Alden V Co. Alden V Co. Sprague, Warner Co. Sprague, Warner Co. Sprague, Warner Co. C E Meyer & Co. C G G G G G G G G G G G G G G G G G G G
Residence.	Beloit Okauchee. Whitewater Tomah Beloit Beloit Beloit Beloit Beloit Beloit Marinette Beloit Marinette Marinette Beloit Mulwaukee Milwaukee Milwaukee Milwaukee Milwaukee Milwaukee Milwaukee Milwaukee Milwaukee Milwaukee
Dealer.	A. P. Douglas & Co A F Hutchings. Geo N Searles Stiles & Rogers Clifford & Smiley Am V Works Am V Works Am V Works Am V Works Am Steines & Rogers Stiles & Rogers Wm Steinmeyer Wm Steinmeyer
Date.	Aug. 23,33 Aug. 23,33 Aug. 23,33 Sept. 5,33 Sept. 6,33
Lab No.	8765 8765 8765 8763 8770 8771 8771 8772 8773 8773 8773 8773 8773 8773 8773

wine.	wine.	wine.			wine.	wine.	wine.																				wine.
White Cider.	White	W ite	Brown. Cider.	Cider.	White White	White	White	Brown.	Cider.	Brown.	Deci-	Brown.	Brown.	Brown.	Brown.	I rown.	Cider.	Cider.	Cider.	Cider.	Cider.	Cider.	Cider.	Cider.	Cider.	Cider.	White
0.47	7.97		2 45	· :	:			:	2. 3.	:	:	:			:	:	8 8 8	0.40	2.15	200	3 5	2.51	1.61	2.55	1.9	36.	
6.00 41.	4.4.4	3 68	4.4 5.1 5.1	2 88	8.18	4.62	3.77	4.34	4.52	4.6	300	25.5	4 57	4.55	4.49	8 8	4.18		8:9	3.02	0.0 7.0	4.34	4.37	8	2.98	4	8.07
Milwaukee Freeport, Ill	Chicago Milwaukee	Milwaukee	Milwaukee	St Louis, Mo	Milwaukee	La Crosse.	Milwaukee	Milwaukee		Milwaukee	Fittsourg, Fa	Milwankee	Milwankee	Milwaukee	Milwaukee	Milwaukee	_		Freeport, III		Elichmon Harbor.	Chicago.	St Louis, Mo	Chicago		_	Milwaukee
Am V Works	Sprague, w & Co Am V Works	Roth Mfg Co	Am V Works	Alden V Co.	P Bechtner Co	La Crosse V Works.	P Bechtner Co	P Bechtner Co	Own make	P Bechtner Co	Heinz.	P Beehtner Co	Am V Works	P Bechtner Co.	Am V Works	P Bechtner Co	င္ပ	John Robinson V Co	C E Meyer & Co		Robinson C & V Co.	Spragne, W & Co.	Red Cross V Co	Sprague, W & Co	C E Meyer & Co	2.	P Bechtner Co
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H J GoelzerStearns & Ballou	Stoite, D & F Co	Frank & Heppe	Frank & Heppe	Higgins House	I I Owelow	o o chatch	Yagy Bros & Egerer.	Yagy Bros & Egerer.	O C Alworth	Geo N Searles.	Ch Stevens	Ulbert Keel	F S Rich	J A Kucker.	S R Stringham	E E Olin	C H Wickland	A F Baldwin	Watson Earle	DA & CA Goodyear	Burton & Creates	G A Hoffman	J A Kucker.	S R Stringham	J J Owsley.	o is cramer to co	Wm A Beurhaas
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Nov.			Nov.		Dec.				•	•	•	•				•		•	•	•	•	Jan.		Jan.	•		
8793 8794	8786 8796 7979	8238	- 8799 10735	10736	10737	10739	10740	10741	10742	10743	10144	10746	10747	10748	10749	10750	10751	10752	10753	10754	10756	10757	10758	10759	10760	10762	10765

VINEGAR TABLES-Continued.

11	•	•	•
Kind.			Cider. Cider. Cider. White wine. Cider.
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Per ct Per ct Acid. Solid.	470 6: 44: 44: 44: 44: 44: 44: 44: 44: 44:	4	. 4.0. 4.4.4. . 6.0. 2.0. 2.0. 4.4.4.4.4.
Residence.	OHMAHMMAHO	Freeport, III. St. Louis, Mo Milwaukee. St. Louis, Mo St. Louis, Mo Freeport, III. Milwaukee. St. Louis, Mo Freeport, III. Freeport, III.	Freeport, III. Pittsburg, Pa. Freeport, III. Freeport, III. Chicago. Chicago.
Manufacturer.	Reid, Murdoch & Co P Bachtner Co Red Cross V Co S. R. & J. C. Mott P Bechtner Co Alden V. Co Alden V. Co Genessee Fruit Co Genessee Fruit Co Prussing V. Co	_ , , , , , , , , , , , , , , , , , , ,	C. E. Meyer & Co Prussing Cider Co
Residence.	Grand Rapids Grand Rapids. Centralia. Grand Rapids. Grand Rapids. Racine. Racine. Milwaukee. Milwaukee.	Richiand Cerr Beloit Whitewater Mazomanie Beloit Reloit Grand Rapids Grand Rapids Grand Rapids Grand Rapids Centralia	Centralia Centralia Wilton Reedsburg Beloit
Dealer.	0000.300		Hauson, Allinine & D. W. Gross & Co. Johnson, Hill & Co. E. E. Titus. Webb & Schwekes Stiles & Rogers
Date.	Feb. 7, 93 Feb. 7, 93 Feb. 7, 93 Feb. 7, 93 Feb. 8, 93 Meb. 2, 93 Meb. 2, 93 Feb. 8, 93		Mch. 13,53 Mch. 13,93 Mch. 13,93 Apill 4,94 April 19,94 April 19,94
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Beloit Beloit Beloit Centralia Centralia Sharon Sharon Beloit Beloit Ashland	Merrill Merrill Merrill Merrill Merrill Merrill Merrill	Merrill Merrill Merrill Milwauk 36 Beloit Beloit Marshall Merrill Ashland Ashland Fond du Lac
Stiles & Rogers. Stiles & Rogers. Stiles & Rogers. Stiles & Rokers. Hanson, Timm& Brier Hanson, Timm& Yrit T D S Benage. S H Sm 1-y S H Sm 1-y Thomas Sulliyan & C. Thomas Sulliyan & C.	A Yeager & Co. J E Lambert & Co. E M Coon & Son. Hano'r Petern'n & C Gergen & Koth Zipp Bros. Collie & Hoffman. E F Z strow.	Wilson & Lichel Reimers & Harvey Fred L. Aude Fred L. Aude S H. Smiley S H. Smiley E A Sanders. Collie & Hoffman Berg & Danielson Jos Stenz Jos Stenz Jos Stenz Jos Stenz Jus Stenz J H. Dinis
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VINEGAR TABLES-Continued.

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Per ct Per ct acid. solids		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Per ct acid.	### ##################################	446465487667 8446465487667
Residence.	Milwaukee Milwaukee Milwaukee Milwaukee Milwaukee Chicago. Milwaukee Chicago. Milwaukee Milwaukee Milwaukee Milwaukee St. Louis, Mo. Freeport, Ill. St. Louis, Mo.	St. Louis, Mo. Freeport, Ill. St. Louis, Mo. St. Louis, Mo. St. Louis, Mo. Chicago. Freeport, Ill. Gr. Rapids, Mich Chicago Milwaukee. Davenport, Ila.
Manufacturer.	Dahinden & Gallasch Dahinden & Gallasch Dahinden & Gallasch P Bechtner Co. R Ged Cross V. Co. Red Cross V. Co.	Red Cross V. Co C E Meyer & Co Alden V. Co Red Cross V. Co Prussing V. Co C E Meyer & Co Prussing V. Co Rallas & Co Roth Mfg Co Roth Mfg Co
Residence.	Fond du Lac. Fond	Rapids. sairie. sad. nn. 11. 12. 13. 14. 15. 16. 16. 16. 16. 16. 16. 16. 16. 16. 16
Dealer.	J Eggert Zinke Bros. Lonis Lange L M Thompson J L Mosser. P N Quentin H Wallichs. Robert Zinke. J W Conley C Koerner. J W Conley C Koerner J W Shilley S H Smiley & Co.	S H Smiley & Co C H Nisson & Co J F Dott & Co Gombar & Sutherlad Gombar & Sutherlad H Grove & Son Geo Tarrant & Son. Eau Claire Groc. Co. Eau Claire Groc. Co. Eau Claire Groc. Co.
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July July July July	Total 1 Numb Percen
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CHEESE.

By far the most serious question that confronts the commission is the filled cheese industry in Wisconsin. It is a direct menace to every cheese factory in the state, and it has grown to such an extent as to seriously affect the price and reputation of Wisconsin cheese.

The cheese law enacted by the last legislature was a gross failure and was so amended and cut to pieces as to render it worse than inoperative.

The writer has given the matter some thought and has framed a bill which he hopes to introduce at the next meeting of the state legislature, covering this point. It is reprinted below with a letter of explanation from Hoard's "Dairyman" of July 20th, 1894.

The passage of this or some other law to regulate this growing evil is one of the imperative duties of the legislature of 1894-95.

Reprint from Hoard's Dairyman, July 20th, 1894.

Madison, Wis., July 12, 1894.

ED. HOARD'S DAIRYMAN, Fort Atkinson, Wis.: Dear Sir:—Herewith I present for your consideration a copy of a bill for a law appertaining to the dairy interests of this state. It is certainly time that some legislative restrictions were placed upon the traffic in filled cheese and this bill was drafted with the idea of presenting a form of law that could be easily enforced and would be effective.

While it is highly desirable that the manufacture of filled cheese should be stopped, it seems to be questionable whether a law forbidding its manufacture would not involve constitutional rights that only the highest courts could pass upon and then only after a long period of time had elapsed.

The maker of filled cheese does not anxiously advertise his wares for what they are, and, in fact, he is directly interested in concealing their true nature from the public, and were it once known that the cheese had been filled with "neutral" there would be no demand for them.

There is no question of it being a valid exercise of the police power for the prevention of fraud for a legislature to compel that all cheese should be branded with its true name, and this bill, if it were to become a law, would give the maker no option in the choice of titles under which his filled cheese was to pass, but render it obligatory that he brand it what it is, an imitation cheese.

The constitutionality of laws of this kind has been repeatedly passed upon and it looks reasonable that this would effectively check the making of filled cheese.

Section 4 compels the brand to be applied at the factory, and thus no opportunity is given, by fictitious shipments, to get the cheese into into a territory where the law is not in force, brand it falsely and then consign to the maker.

Section 1, repealing all previous laws, gives the dairymen a clean slate to start with and prevents the possibility of old statutes being twisted into a position where fraud is apparently legalized.

Trusting this may be of interest to your readers and that it will call forth some little discussion, in which I should be glad to take a part, I am

Yours respectfully,
GEO. S. Cox,
State Chemist.

ENCLOSURE.

A Bill for an Act to Regulate the Branding, Sale and Manufacture of Butter and Cheese and their Substitutes:

SECTION 1. All acts or parts of acts relating to the sale, manufacture and branding of butter and cheese and their substitutes are hereby repealed.

SECTION 2. Every person in this state who shall deal in, keep for sale, expose or offer for sale or exchange any substance other than butter or cheese made wholly and directly from pure milk or cream, salt and harm-

less coloring matter, which appears to be, resembles, or is made in imitation of butter and cheese, shall keep a card, not less in size than ten by fourteen inches, posted in a conspicuous and visible place, where the same may be easily seen and read, in the store, room, stand, booth or wagon, or place where such substance is so kept or exposed for sale upon which card shall be printed on a white ground, in bold, black Roman letters, not less in size than twelve line pica, the words, "Oleomargarine," "Butterine," or "Imitation Cheese" (as the case may be) "sold here," and said card shall not contain any other words than the ones above prescribed; and no person shall sell any oleomargarine, butterine, imitation cheese or other dairy product, at retail or in any quantity less than the original package, unless he shall first inform purchaser that the substance is not butter or cheese, but an imitation of the same and he shall stencil or brand upon each package containing the imitation butter or cheese, in plain letters, not less than five line pica in size, the words "Oleomargarine," Butterine," or "Imitation Cheese," as the case may be.

SECTION 3. Every proprietor, keeper or manager, or person in charge of any hotel, boarding house, restaurant, eating house, lunch room, lunch counter, who therein uses, sells, or disposes of any substance which appears to be, resembles, or is made in imitation of butter or cheese, under whatsoever name, and which substance is not made wholly and directly from pure milk or cream, salt and harmless coloring matter, shall display and keep posted a card in a conspicuous place, where the same may be easily seen and read, in the dining room, eating room, lunch room, restaurant and the place where such substance is sold, used, or disposed of, which card shall be white and in size not less than 10 by fourteen inches. upon which shall be printed in plain black Roman letters, not less in size than twelve line pica, the words "Oleomargarine used here," "Butterine used here," or "Imitation cheese used here" (as the case may be) and said card shall not contain any other words than the ones above prescribed and such keeper, proprietor, manager, or person in charge shall not sell, furnish, or dispose of any substance as and for butter and cheese, made from pure milk or cream, salt and harmless coloring matter when butter or cheese is asked for.

SECTION 4. Every person who shall at any cheese factory in the state manufacture cheese shall distinctly and durably stamp upon each and every such cheese, whether cheddar, twin, flat, or Young America, or by whatever name or style known, in full faced capital letters the grade of the same, as "Wisconsin Full Cream," "Skimmed," or "Imitation Cheese," as hereafter provided for in this act, and each and every cheese shall be ta ed and branded at the factory wherein it was made and before it is shipped from such factory.

SECTION 5. The State Dairy and Food Commissioner is hereby authorized to issue to each cheese factory in the state, upon proper application therefor, uniform stencils or brands to be used as hereinafter provided.

- (a.) All cheese containing not less than 45 per cent. (45) of butter fat in comparison with the total solids shall be branded "Wisconsin Full Cream Cheese."
- (b.) All cheese containing less than the above prescribed amount of fat shall be branded "Skimmed Cheese."
- (c.) All cheese into which any foreign fats or other oleaginous substance or substances have been introduced shall be branded "Imitation Cheese" and in each instance, the brand shall be used upon the side of the cheese on the bandage thereof, and upon the box containing the same.
- SECTION 6. The dairy and food commissioner shall issue the brands provided for in section 5, upon proper application therefor, and shall keep a book in his office, which book shall contain a record of the number of each brand issued, and the name and location of the factory receiving the same, and no factory other than the one to which said brand was issued shall use the same.

SECTION 7. Anyone violating any of the provisions of this act shall be deemed guilty of a misdemeanor, and shall, upon conviction, be punished by a fine of not less than twenty five nor more than one hundred dollars, one-half of which fine shall be paid to the person or persons furnishing the information upon which such conviction was made, and the state dairy and food commissioner and his assistants are hereby expressly prohibited from receiving any portion of any fine imposed under the provisions of this act.

SECTION 8. This act shall take effect and be in force upon its passage and publication.

CHERSE TABLES.

	REPORT OF THE WISCONSIN
Bemarka.	Marked "Full Cream" Cont'n'd Tyrotoxicon Filled cheese Filled cheese
Fat por cent.	######################################
Addrens.	Sheboygan, Wis. Sheboygan Falls. Sheboygan At Sheboygan
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Address.	Sheboygan, Wis. Sheboygan, Wis. Sheboygan, Wis. Sheboygan, Wis. Sheboygan, Wis. Sheboygan, Wis. Sheboygan Falis. Sheboygan Falis. Oak fleid. Madison At Sheboygan Madison Madison Madison Milwaukee
Dealer.	Udell & Co. Sheboygan Ch'se Co. Sheboygan Ch'se Co. Sheboygan Ch'se Co. Gheboygan Co. Cory Bres. Bristol, Morgan Co. Cory Bres. Bristol, Morgan Co. Cory Bres. Taken by W A West
Date.	Apr. 7, 93 Apr. 7, 93 July 17, 93 July 17, 93 Nov. 25, 93 Dec. 1, 93 Jan. 22, 94 Jan. 22, 94
No.	60000000000000000000000000000000000000

CHEESE TABLES—Continued.

Remarks.	31.00 Filled cheese. 17.70 29.80 24.79 32.10 Skim.
Fat per cent.	31.00 28.80 32.73 32.73 32.73
Address.	Rome Black Earth Watertown
Maker.	ukee B A Oestreich Rome on Black Earth C Co. Black Earth Mills Woodard & Stone Watertown Mills
Address,	Milwaukee
Dealer.	I P Tischner & Co. Patrick Regan H J Anderson Reed & Combe Pentland & Harm'n Farmers' Exchange
Date.	Feb. Reb. Apr. Apr. Apr. Apr. Apr.
Lab. No.	10901 10902 1. 916 10917 10918 10919

BUTTERINE.

The law proposed for the regulation of the sale of filled and skim cheese would apply equally well to the sale of butterine and indeed, in the most instances in this state that have come under our notice, butterine is sold for what it is. The main difficulty lies in its use by the hotels and eating houses upon their tables without posting the proper signs.

Several convictions upon this score will be found elsewhere.

Lab. No.	Dat	е.	Received from.	Address.	Remarks.
6027 6262 6270 6271 6272 10906 10907 10908 10909 10911 10912 10913 10914 10915	Feb'y Feb'y Feb'y April April April April April March March March	30,'93 20,'93 25,'93 25,'93 25,'93 18,'94 19,'94 19,'94 6,'94 2,'94 6,'94	A W Patten I W Ball Wm S West Schlitz Hotel Grand Hotel Hotel Meyers Hotel Goodwin Grand Hotel Phila.Lunch Room Fred Thiele Fred Thiele Chas Knight	Madison New Lisbon Appleton Madison Berlin Milwaukee Janesville Janesville Beloit Beloit Milwaukee Milwaukee Milwaukee Milwaukee Milwaukee	Butterine. Butterine. Butterine. Butterine. Butterine. Butterine. Butterine.

BUTTER TABLE.

There seems to be a necessity of restricting the sale of many of the cosmetics and face preparations that are found upon the market. Many of them contain chemicals that are absolutely dangerous to health, and as the fact seems to be pretty well established that the women will use them, it is within the province of the government to suppress those that are injurious.

Although this commission has been in operation for over five years, it has not yet accomplished the maximum amount of good that it is possible to accomplish, and it cannot do so until more exact and reasonable laws are enacted, and more power placed in its hands for their enforcement.

In conclusion, I wish to extend my sincere thanks to Mr. Charles Todd, whose faithful and intelligent work has been of the greatest assistance to me in the laboratory.

All of which is respectfully submitted.

GEORGE S. COX, State Chemist.

REPORT OF THE DAIRY EXPERT.

To the honorable Thos. Luchsinger,

Dairy Commissioner of the State of Wisconsin.

I herewith hand you my report for the two years ending Sept. 30, 1894, and trust that this short review of dairy interests and some of the recommendations herein contained to enable the commission to do more efficient work may result in some good.

Respectfully,

Walter A. West,

Dairy Expert,

State of Wisconsin.

The work of the expert has been along the line of looking up and bringing to justice violators of the laws relating to milk, butterine and cheese. The work on milk has been quite extensive and consisted in visiting factories from which complaints have come in regard to the quality of milk, or looking after the dealers of milk in cities.

In visiting factories we have found some very poor milk, and many prosecutions have followed and much good been done for factorymen and patrons. On the whole the milk delivered at factories, we think, averages better than the ability of many makers to manufacture it. We find the most trouble occurring in the dry spells, such as we have just passed through the past July and August. To the factorymen's work I will refer later.

The factories that make American cheese are rapidly adopting the rule of paying for the milk by the butter fat

and when this system is adopted in all factories the millennium for makers will be much nearer at hand. The paying for milk by the butter fat method is questioned by many cheese makers as regards its fairness and accuracy. Experiments have proven beyond a doubt that the caseine in milk varies in the same proportion as does the butter fat, and that the fat method is just and correct.

In the factories where Brick, Limburger and Switzer are made the work of introducing the test is much slower. In such factories milk is taken in twice each day and the ability to skim nearly or quite removed. Still there is that spirit to be dishonest by some and the watering has not entirely been done away with.

All our factorymen will soon see that our much honored citizen's test, Dr. Babcock, must be introduced in order that both factorymen and patron can get their just deserts and both be protected.

The worst features of the milk produced in cities are the places in which the cows are kept and the quality of the feed given them. Much of it comes from cows kept in close, unventilated stables and fed on slop feed and other refuse gathered from door to door in the neighborhood in which they are kept.

There is no law now regulating this practice and it is one of the things very much needed.

The method of delivery of milk, after it has been produced, is in some cities entirely wrong. Milk should never be placed in a large can and then drawn through a faucet at the bottom. Many people think that the motion of the wagon as it is driven from place to place will keep the cream mixed with the milk, but such is not the case. The patrons that are served last where milk is so delivered get the cream and the first ones only plain skim milk. Hence, a milk dealer may be guilty of selling skim milk, when as a whole his milk is fairly good. Milk should always be dipped through the top of the can by means of a long-handled dipper, which should invariably be plunged to the

bottom of the can, thus imparting a swirling motion, to insure best results.

We should have a law enacted the same as many other states making it a criminal offense to sell milk which contains less than nine per cent. solids not fat. This would help out the commission very much on the city work. Some states make the requisite standard at least nine and one-half per cent, solids not fat and three per cent. solids fat. But we think nine comes nearer being the minimum limit, as there are seasons when nine and one-half seems high.

The creamery butter interests in our state, have nearly doubled in the last two years and in spite of the butterine business, butter has steadily gained in price since 1890. until this year, during the past season it has held its own better than almost any other farm product except cheese. The creameries as a rule are much better managed than the cheese factories which they have supplanted in many localities as the price of butter in the past few years has ruled higher than cheese in proportion up to this year, nearly all creameries pay for the milk in proportion to butter fat by the Babcock test. The sale of butterine in our state is constantly increasing, there were last winter 153 retail licenses issued in the state for the sale of butterine. As a rule the retail dealer complies with the laws regulating the putting up of signs and the branding of packages. The past season we have visited over 100 persons who hold a license and out of the whole number visited we found but five that did not brand the package as it was delivered to the customers in strict accordance with the state and national laws, and in no instance did we find a place, which did not have a very large sign showing that the firm sold oleomargarine.

The trouble does not lie with the dealer, but it does lie in a place much harder to reach, namely, the hotel, restaurant and boarding house keepers. We have not found one single instance where oleomargarine was served to guests on the table of hotels, boarding houses or restaurants in which they had up the requisite sign. This has been one of themost fruitful grounds for work and much work has been done in this line and much remains to be done. The omission of such sign comes strictly under the state law and has to be dealt with by the state, while the retail dealers are amenable to the United States laws as well as those of the state. In nearly all cases that we have prosecuted arising from the omission of putting up signs in dining rooms, the parties said they would just as soon put them up as not, but in no instance has this been done, they have always gone to using butter.

The use of oleomargarine is also increasing in a legitimate way. Never have we seen an article so extensively advertised and exhibited in all public places, such as fairs, expositions, etc., in order to show its cleanliness and good qualities as oleomargarine, and to-day we find that many families buy it regularly. The sale is not restricted to the city, but farmers, who make a business of keeping dairies for a living, have a practice of buying oleomargarine for their own use. This looks and is absurd, but the absurdity of the thing makes it none the less true. We think the present laws on oleomargarine are sufficient and there needs to be no further legislation on that subject.

The cheese question is a very difficult one to handle. The opinions are so varied and the legislation on this article has been performed by those whose ideas of its enforcement must have been very meager. Laws have been passed at each session of the legislature that have been worse than useless, so that it seems a hard task to try and get sunlight that will stay through such dark clouds. We will first speak of our full cream cheese. What is at fault with our full cream cheese? The majority are not good and what is the matter? The whole trouble can be summed up in one word carelessness. Some farmers in each factory give no thought as to the quality of the water the cows drink or the feed they get, whether it be weeds or clover. The water may be a stagnant pool or a rippling brook.

They care not so long as it is water and the cows get enough.

After the milk is in the can they pay no further attention to it. If the night is hot and the milk taints it is all right; that is, if the cheese maker takes it in and tries to make cheese of it. Then here comes in the cheese maker's carelessness. If a maker is careless about taking in milk he is careless everywhere. The milk to him is the start and when a man is careless enough to start wrong he is wrong all through.

We think the reform in this direction lies with the careful, painstaking farmers. This class of our farmers we are glad to say is much in the majority. Let these good farmers insist that when they deliver their milk to a factory, they shall receive the market price for it. Compel the cheese maker to furnish bonds that he will pay for your milk on the basis of the regular board prices for good cheese less the commission for making. If you compel your factoryman to furnish you security that he will pay the market price for milk, the factoryman will very soon bring to time the careless farmer or close up shop.

No factoryman can make first class cheese out of poor milk, and if he cannot make good cheese he cannot sell it for the market price for such goods. If the cheese maker cannot sell his goods for the market price he cannot pay the market price for your milk. So you painstaking farmers insist on the market price for your good milk and you can do more toward making Wisconsin full cream cheese sought for than all the laws that can be enacted.

Every factoryman should insist on factory inspection of his cheese. When you ship your cheese to the buyer without having first had them inspected in the factory, and the buyer finds some fault with your goods, you, as a rule, think the buyer is dishonest. Buyers, as a rule, would rather not find any fault. But they have to with some goods. If these faults were pointed out to the factorymen in the factory, everything would be all right. But

if the goods are in the buyer's hands in the city and he writes and explains the faults with them the factorymen, as a rule, think the buyer dishonest. So, factorymen, insist on factory inspection of cheese and you and your buyer will keep on much better terms.

We cannot refrain, just now, from having a word about our dairy instructors. The instructors, as most people know, are men engaged by our State Dairymen's Association. No person should ever be engaged to instruct others unless he has demonstrated beyond a doubt that he is a successful maker himself. Are there many men now connected with and controlling our State Dairymen's Association who are practical, up to date cheese or butter men? Look this question up and then cast about and see if there is not a better way of securing the instructors.

We have men in the dairy department of our Agricultural college who are working constantly on cheese and butter making and who are sending out a large number of cheese and butter makers every year. Among these graduates are some first class men and the department knows who they are. Give to our Dairy Department of the Agricultural college the four thousand dollars now given to the Dairymen's Association and they will employ double the number of instructors during the cheese season. Five dollars is now asked every factoryman who calls for an instructor. This is too much. Make it two dollars a day and the instructors will be called to many more places than than they now are. Five dollars to some of the factorymen seems a large sum. It represents one fifth of a month's wages in many cases. There is room for reform along this line, let us look to it.

The skim and filled cheese business, what is its origin, what its effect and where lies the remedy? Has it decreased and does it decrease the price of full cream cheese? Has it any place in the cheese business? The light skim is the father of the hard skim and the hard skim the father of the filled cheese. We are now and have been for some

time manufacturing skim and filled cheese. The skim cheese business is on the decline and the filled cheese are taking its place.

If any quality of cheese is made and sold for what it is and the consumer knows what he is buying or using there can be no complaint unless it is detrimental to health. It seems to-day as though the more spurious goods there were made the more the genuine article is sought for and the higher priced it becomes. There probably has been more filled cheese made the past year than in any previous season; still the full cream cheese are higher in price this year than for many seasons.

All our factorymen can well remember when from five to seven cents was a good fair price for summer cheese. Now how is it? Can anyone say the price has gone down during the past five years? It looks to us as though the genuine article was more and more sought for and that the price is justly advancing for all good goods. Still we would like to see the imitation stuff wiped from the face of our fair land. Not only the imitation cheese, but all other adulterated products. Now, how can it be done? The question for Wisconsin is to-day. Can we prohibit in our state the manufacture of spurious dairy products? (We use the word spurious as meaning skim cheese, filled cheese and butterine.) If so, where will be the gain? It is doubtful whether the state can pass and carry out a law forbidding the manufacture of these goods if they are found not to be detrimental to health. If they are detrimental to health it becomes an easy matter.

Many laws have been passed relating to this subject and pertaining to the branding of this class of goods. Who knows of any good that the laws for branding cheese have ever done in Wisconsin? Has it made Wisconsin cheese any more popular? Has it increased the price? We answer, No. On the contrary, it has injured us just to the extent of the cost of the labor to take that stamp off. Dealers do not want every little lot of cheese branded dif-

ferently. They want to buy their cheese, sort them over, and brand those of the same quality with the same brand as one lot. A skim or a fill cheese brand does no good after it leaves our state, as the brand is easily removed and a brand to suit the purchaser put on. What, then, is to be done? We think the only permanent and just settlement of this question rests with the United States government. It, and it alone, can raise the quality of the cheese of this country. It can cause it to be branded and make it stay branded. While Wisconsin cannot raise the standard of the cheese of the United States as it goes abroad, the United States can and should establish this standard.

Could Quebec or Ontario alone raise the standard of Canadian cheese, if the other provinces were allowed to make poor goods and brand them the same as the pure products of other provinces? We answer, No. But the laws governing the sale of Canadian cheese are made, regulated and enforced by the Dominion government, not by one province. So, with us, let each man put his shoulder to the wheel to stamp out fraudulent cheese and butter in the United States through the enactment of national laws that can be enforced throughout the land. We therefore recommend that Wisconsin abolish the inefficient laws upon the branding of cheese and seek through co-operation with the United States Department of Agriculture to accomplish something that will come to stay.

Respectfully,

WALTER A. WEST,
Assistant Dairy Commissioner.

MILCH COWS IN WISCONSIN, 1894—PRODUCT IN WISCONSIN IN 1893.

	1		
	Number of cows.	Pounds of butter.	Pounds of cheese.
Adams	3,122	256,596	7,590
Ashland	454	8,200	
Barron	4,652	486,695	88,111
Bayfield	406	5,480	F40 000
Brown	8,806 9,433	508,195 479,463	540,803 166,640
BuffaloBurnett	1,648	96,157	1,150
Calumet	12,180	525,109	1,872,306
Chippewa	4,777	817,357	1,0,2,000
Clark	6,936	713,143	60,726
Columbia	14,065	2,165,286	106,415
Crawford	6,481	376,005	10,800
Dane	36,280	8,888,865	816,765
Dodge	31,180	2,183,565	8,330,623
Door	6,292	218,692	476,961
Douglass	282	6,535	17 000
Dunn	8,762	451,987	17,960
Eau Claire	5,114 168	363,967	22,428
Florence Eond du Lac	22,969	2,385 1,699,785	2,144,862
Forest.	92	2,785	2,142,002
Grant.	17,839	662,033	378,815
Green	27,325	567,530	4,171,849
Green Lake	6,320	333,385	156,752
Iowa	17,337	966,856	1,883,345
Iron	217	3,000	
Jackson	5,689	553,943	
Jefferson	27,081	5,028,487	1,205,538
Juneau	5,897	223,424	380,803
Kenosha	12,819	1,158,692	4 000 000
Kewaunee	10,366	281,498	1,678,081
La Crosse	9,791 16,910	938,560 679,206	14,280 1,175,621
La Fayette Langlade	988	60,766	1,110,021
Lincoln	1,105	65,660	
Manitowoc	20,022	731,164	3,625,583
Marathon	8,713	808,254	85,826
Marinette	2,780	83,401	750
Marquette	3,797	485,582	420
Milwaukee	9,879	509,618	109,390
Monroe	7,603	518,408	319,800
Oconto	8,474	239,682	
Oneida	184		
Outagamie	14,961	719,402	2,423,297
Ozaukee	10,359	401,470	1,080,930
Pepin	2,269	168,860	800 61,708
Pole	7,886	846,727	
Polk	6,476	444,261	26,475

MILCH COWS IN WISCONSIN, 1894—PRODUCT IN WISCONSIN IN 1898—Continued.

•	Number of cows.	Pounds of butter.	Ponnds of cheese.
Portage	5,166	819,182	16,920
	447	47,555	250
Racine	11,308	2,745,180	162,980
	16,959	508,095	2,571,888
	19,904	1,962,187	182,500
St. Croix	8,881 14,178 78	496,242 945,604 1,500	464,416 525,875
Shawano	6,748	299,872	186,794
	28,276	596,001	6,508,118
	971	55,671	1,250
Treampeleau	12,918	1,808,400	2, 694
	8,474	556,815	41,840
Walworth	24,802 818 14,881	2,540,843 11,480 917,026	2,468,700 808,950
Waukesha	16,827	1,890,205	43,429
Waupaca	10,409	565,828	329,486
Waushara	7,864	624,460	1,427,072
Winnebago Wood	14,870 8,904 663,099	998,894 149,165 48,104,565	1,462,288 55,824 45,588,490

LIST OF PERSONS FINED FOR SELLING ILLEGAL VINEGARS.

Names.	P. O. Address.	Amount.	
Corry Bros	MadisonJanesville	\$10.00 10.00	
F S Winslow	Janesville	10.00	
A D Sanborn	Janesville	10.00 10.00	
Ball & Bates	Janesville	10.00	
W F Vankirk	Janesville	10.00 10.00	
Leutz & Funk	Kenosha	10.00	
W D Baily & Co	Kenosha	10.00	
Gfroerer & Co	Kenosha	10.00 10.00	
Engel Bros	Racine	10.00	
Leo A Piel	Racine	10.00 10.00	
Wickham & Williams	Racine	10.00	
I L Easson	Racine	10.00	
Hanley Bros	Racine	10. 0 0 10.00	
Green & Co	Beloit	10.00	
Clifford & Smiley	Beloit	10.00 10.00	

LIST OF PERSONS FINED FOR MAKING SKIMMED CHEESE, AND AMOUNT OF FINE.

Name.	P. O. Address.	Amount.	
H Marr & Co	Mt Vernon	\$50 06 50 00 50 00 50 00 50 00	

LIST OF PERSONS FINED FOR SELLING BUTTERINE CONTRARY TO LAW.

Name.	P. O. Address.	Amount.
Wilson & Lickles. Jake Snyder J. B. Russell C. F. Jackson H. B. White. Hughs Bros J. T. Sweeny E. D. Miller Con McDowell A. Holt. John Kenyon	Beloit. Beloit. Beloit. Beloit. Milwaukee Janesville. Janesville. Janesville. Janesville.	\$25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00 25 00

LIST OF PERSONS FINED, AND AMOUNT OF FINES COLLECTE D FROM OCTOBER 1, 1892, TO SEPTEMBER 30, 1894, FOR SELLING ADULTERATED MILK.

Names.	P. O. Address.	Amount.
— Coccaran	Milwaukee	\$20.00
C. Howell	Wines	20.00
Mike Connell	Maple Grove	20.00
Mike O'Brien	Maple Grove	20.00
A. Smith	Brandon	10.00
D. Schunk	Milwaukee	20.00
Geo. Berkmer	Brandon	10.00
James Edwards	Belmont	10.00
J. Helzert	Lake Geneva	10.00
S. Stowell	Lynn	10.00
J. S. Reek	Keys Corners	10.00
M. Flynn	Omro	10.00
F. Kuntz	Omro	10.00 10.00
William Feston	Slades Corners	10.00
Anton Schier	Berlin	10.00
L. Lehr	Berlin	10.00
J. Brooks	Berlin	10.00
John Hogan	Maple Grove	10.00
D. Schehan	Maple Grove.	10.00
Wm. Robenharst	Manitowoc	10.00
James Taicher	Manitowoc	10.00
P. Fagan	Manitowoc	10.00
James Pulls	Manitowoc	10.00
T. Mark	Manitowoc	10.00
R Zemen	Manitowoc	10.00
Frank Anderson	Manitowoc	10.00
Frank Husa	Manitowoc	10.00
James Brown	Delavan	10.00
Henry McComber	New Lisbon	10.00
Steve McComber	New Lisbon	10.00
Aug Basch	Wheatland	10.00
W Bunker	Clinton Junction	10.00
Charles Brown	East Troy	10.00 10.00
W BoaH Muth	Horicon	10.00
G Schultz	Horicon	10.00
J Melegeiru	Carlton.	10.00
Joe Odradovce	Carlton.	10.00
Fred Weber	Neenah.	10.00
John Fath	Neenah.	10.00
H E Hexly	Neenah	10.00
Geo Wilz	Nenah	10.00
Herman Hemfeld	Beaver Dam	10.00
John Louth	Beaver Dam	10.00
James Darrough	Argyle	10.00
Joseph Beyer	Kewaunee	10.00
Chas WallersFrank Frank	Kewaunee	10.00
	Kewaunee	10.00

